

LISTING PROGRAM

Database.java

```
package skripsi;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;

public class Database {
    private Connection koneksi;
    private String database = "skripsi";
    private String dbUser = "root";
    private String dbPass = "root";
    private String username;

    public String getUsername() {
        return username;
    }

    public Connection konek(){
        try{
            Class.forName("com.mysql.jdbc.Driver");
        }catch(ClassNotFoundException cnfe){
            System.out.println("Tidak ada Driver "+cnfe);
        }

        try{
            koneksi=DriverManager.getConnection("jdbc:mysql://localhost/"+database, dbUser,
dbPass);
        }catch(SQLException se){
            System.err.println("Gagal koneksi: "+se);
            JOptionPane.showMessageDialog(null,"Gagal Koneksi
Database","Peringatan",JOptionPane.WARNING_MESSAGE);
        }
        return koneksi;
    }

    public Object[][] validasikrit(){
        koneksi = new Database().konek();
        Object data[][] = null;
        try{
```

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String sql = "SELECT sum(bobot_kriteria)as bobot FROM kriteria";
Statement stmt = koneksi.createStatement();
ResultSet rslt = stmt.executeQuery(sql);
ResultSetMetaData metadata = rslt.getMetaData();
rslt.last();
data = new Object[rslt.getRow()][metadata.getColumnCount()];

int j = 0;
rslt.beforeFirst();
while(rslt.next()){
    data[j][0] = rslt.getInt("bobot");

}
koneksi.close();
}catch(Exception ex){
    System.err.println("Gagal Mengambil Data User: "+ex.getMessage());
}
return data;
}

public String login(String username, String password){
koneksi = new Database().konek();
String posisi = "";
int hasil = 0;
try{
    String sql = "SELECT * FROM User WHERE Username = ? AND Password = ?";
    PreparedStatement stmt = koneksi.prepareStatement(sql);
    stmt.setString(1, username);
    stmt.setString(2, password);
    ResultSet rslt = stmt.executeQuery();
    while(rslt.next()){
        this.username = rslt.getString("username");
        posisi = rslt.getString("posisi");
        hasil = rslt.getRow();
    }
    koneksi.close();
}catch(Exception ex){
    System.err.println("Gagal Login: "+ex.getMessage());
}
return posisi;
}

public Object[][] getUser(){
koneksi = new Database().konek();
Object data[][] = null;
try{
    String sql = "SELECT * FROM User ORDER BY id_user";

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Statement stmt = koneksi.createStatement();
ResultSet rsIt = stmt.executeQuery(sql);
ResultSetMetaData metadata = rsIt.getMetaData();
rsIt.last();
data = new Object[rsIt.getRow()][metadata.getColumnCount()];

int j = 0;
rsIt.beforeFirst();
while(rsIt.next()){
    data[j][0] = rsIt.getInt("id_user");
    data[j][1] = rsIt.getString("username");
    data[j][2] = rsIt.getString("password");
    data[j][3] = rsIt.getString("posisi");

    j++;
}
koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data User: "+ex.getMessage());
}
return data;
}

public boolean insertUser(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO User (username, password,posisi) "
            + "VALUES (?, ?, 'perangkat desa)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String)data[1]);
        prep.setString(2, (String)data[2]);
        prep.setString(3, (String)data[0]);
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex){
        System.err.println("Gagal Menambah Data User: "+ex.getMessage());
        return false;
    }
}

public boolean updateUser(Object data[]){
    koneksi = new Database().konek();
    try{
        String sql = "UPDATE User SET username = ?, password = ?"
            + "WHERE id_user = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String) data[1]);
    }
}

```

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        prep.setString(2, (String) data[2]);
        prep.setInt(3, (Integer) data[0]);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Mengubah Data User: "+ex.getMessage());
        return false;
    }
}

```

```

public boolean deleteUser(int id){
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM User WHERE id_user = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data User: "+ex.getMessage());
        return false;
    }
}

```

```

public Object[][] getPenduduk(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM penduduk ORDER BY id";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("id");
            data[j][1] = rslt.getString("no_kk");
            data[j][2] = rslt.getString("Nama_KK");
            data[j][3] = rslt.getInt("RT");
            data[j][4] = rslt.getInt("RW");
            j++;
        }
        koneksi.close();
    }
}

```

```

    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Penduduk: "+ex.getMessage());
    }
    return data;
}

public Object[][] getPenduduka(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM penduduk where id not in (select distinct id from nilai)";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("id");
            data[j][1] = rslt.getString("no_kk");
            data[j][2] = rslt.getString("Nama_KK");
            data[j][3] = rslt.getInt("RT");
            data[j][4] = rslt.getInt("RW");
            j++;
        }
        koneksi.close();
    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Penduduk: "+ex.getMessage());
    }
    return data;
}

```

```

public Object[][] getPendudukb(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM penduduk where id in (select distinct id from nilai)";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("id");

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        data[j][1] = rslt.getString("no_kk");
        data[j][2] = rslt.getString("Nama_KK");
        data[j][3] = rslt.getInt("RT");
        data[j][4] = rslt.getInt("RW");
        j++;
    }
    koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Penduduk: "+ex.getMessage());
}
return data;
}

```

```

public Object[][] getPendudukc(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT p.id,p.no_kk,p.Nama_KK,p.RT,p.RW,date_format(now(),'%M,%Y')
as tanggal FROM penduduk p where p.id in (select distinct id from nilai)";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("id");
            data[j][1] = rslt.getString("no_kk");
            data[j][2] = rslt.getString("Nama_KK");
            data[j][3] = rslt.getInt("RT");
            data[j][4] = rslt.getInt("RW");
            data[j][5] = rslt.getString("tanggal");
            j++;
        }
        koneksi.close();
    } catch (Exception ex) {
        System.err.println("Gagal Mengambil Data Penduduk: "+ex.getMessage());
    }
    return data;
}

```

```

public Object[][] getPenduduk(int id){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{

```

```

String sql = "SELECT * FROM penduduk WHERE id = ? ORDER BY id";
PreparedStatement prep = koneksi.prepareStatement(sql);
prep.setInt(1, id);

ResultSet rslt = prep.executeQuery();
ResultSetMetaData metadata = rslt.getMetaData();
rslt.last();
data = new Object[rslt.getRow()][metadata.getColumnCount()];

int j = 0;
rslt.beforeFirst();
while(rslt.next()){
    data[j][0] = rslt.getInt("id");
    data[j][1] = rslt.getString("no_kk");
    data[j][2] = rslt.getString("Nama_KK");
    data[j][3] = rslt.getInt("RT");
    data[j][4] = rslt.getInt("RW");
    j++;
}
koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Penduduk: "+ex.getMessage());
}
return data;
}

public boolean insertPenduduk(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO penduduk (no_kk,Nama_KK,RT,RW) "
            + "VALUES (?, ?, ?,?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);

        prep.setString(1, (String)data[1]);
        prep.setString(2, (String)data[2]);
        prep.setInt(3, (Integer)data[3]);
        prep.setInt(4, (Integer)data[4]);

        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex){
        System.err.println("Gagal Menambah Data Penduduk: "+ex.getMessage());
        return false;
    }
}

```

```

public boolean updatePenduduk(Object data[]){
    koneksi = new Database().konek();
    try{
        String sql = "UPDATE penduduk SET no_kk= ?, nama_KK = ?, RT = ?, RW = ? "
            + "WHERE id = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String) data[1]);
        prep.setString(2, (String) data[2]);
        prep.setInt(3, (Integer) data[3]);
        prep.setInt(4, (Integer) data[4]);
        prep.setInt(5, (Integer) data[0]);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Mengubah Data Penduduk: "+ex.getMessage());
        return false;
    }
}

```

```

public boolean deletePenduduk(int id){
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM penduduk WHERE id = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data penduduk: "+ex.getMessage());
        return false;
    }
}

```

```

public Object[][] getKriteria(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM kriteria ORDER BY kode_kriteria";
        Statement stmt = koneksi.createStatement();
        ResultSet rsIt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rsIt.getMetaData();
        rsIt.last();
        data = new Object[rsIt.getRow()][metadata.getColumnCount()];
    }
}

```



```

int j = 0;
rslt.beforeFirst();
while(rslt.next()){
    data[j][0] = rslt.getInt("kode_kriteria");
    data[j][1] = rslt.getString("nama_kriteria");
    data[j][2] = rslt.getInt("bobot_kriteria");

    j++;
}
koneksi.close();
}catch(Exception ex){
    System.err.println("Gagal Mengambil Data Kriteria: "+ex.getMessage());
}
return data;
}

```

```

public boolean insertKriteria(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO kriteria (nama_kriteria, bobot_kriteria) "
            + "VALUES (?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String)data[1]);
        prep.setInt(2, (Integer)data[2]);

        prep.execute();
        koneksi.close();
        return true;
    } catch(Exception ex){
        System.err.println("Gagal Menambah Data Kriteria: "+ex.getMessage());
        return false;
    }
}

```

```

public boolean updateKriteria(Object data[]){
    koneksi = new Database().konek();
    try{
        String sql = "UPDATE kriteria SET nama_kriteria = ?, bobot_kriteria = ? "
            + "WHERE kode_kriteria = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String) data[1]);
        prep.setInt(2, (Integer) data[2]);
        prep.setInt(3, (Integer) data[0]);
        prep.execute();

        koneksi.close();
        return true;
    }
}

```

```

    }catch(Exception ex){
        System.err.println("Gagal Mengubah Data Kriteria: "+ex.getMessage());
        return false;
    }
}

```

```

public boolean deleteKriteria(int id){
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM kriteria WHERE kode_kriteria = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data Kriteria: "+ex.getMessage());
        return false;
    }
}

```

```

public Object[][] getSubKriteria(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT s.kode_sub_kriteria, s.nama_sub_kriteria, s.nilai_profil,
f.kode_faktor, f. nama_faktor, f.bobot_faktor, "
            + "k.kode_kriteria, k.nama_kriteria, k.bobot_kriteria "
            + "FROM sub_kriteria s LEFT JOIN faktor AS f ON s.kode_faktor = f.kode_faktor "
            + "LEFT JOIN kriteria AS k ON s.kode_kriteria = k.kode_kriteria ORDER BY
s.kode_sub_kriteria";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];

        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("kode_sub_kriteria");
            data[j][1] = rslt.getString("nama_sub_kriteria");
            data[j][2] = rslt.getInt("nilai_profil");
            data[j][3] = rslt.getInt("kode_faktor");
            data[j][4] = rslt.getString("nama_faktor");
            data[j][5] = rslt.getInt("bobot_faktor");
            data[j][6] = rslt.getInt("kode_kriteria");

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        data[j][7] = rslt.getString("nama_kriteria");
        data[j][8] = rslt.getInt("bobot_kriteria");

        j++;
    }
    koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Sub Kriteria: "+ex.getMessage());
}
return data;
}

```

```

public Object[][] getSubKriteria(int kodeKriteria){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT s.kode_sub_kriteria, s.nama_sub_kriteria, s.nilai_profil,
f.kode_faktor, f.nama_faktor, f.bobot_faktor, "
            + "k.kode_kriteria, k.nama_kriteria, k.bobot_kriteria "
            + "FROM sub_kriteria s LEFT JOIN faktor AS f ON s.kode_faktor = f.kode_faktor "
            + "LEFT JOIN kriteria AS k ON s.kode_kriteria = k.kode_kriteria "
            + "WHERE k.kode_kriteria = ? ORDER BY s.kode_sub_kriteria";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, kodeKriteria);
        ResultSet rslt = prep.executeQuery();
        ResultSetMetaData metadata = rslt.getMetaData();
        rslt.last();
        data = new Object[rslt.getRow()][metadata.getColumnCount()];

        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("kode_sub_kriteria");
            data[j][1] = rslt.getString("nama_sub_kriteria");
            data[j][2] = rslt.getInt("nilai_profil");
            data[j][3] = rslt.getInt("kode_faktor");
            data[j][4] = rslt.getString("nama_faktor");
            data[j][5] = rslt.getString("bobot_faktor");
            data[j][6] = rslt.getInt("kode_kriteria");
            data[j][7] = rslt.getString("nama_kriteria");
            data[j][8] = rslt.getString("bobot_kriteria");

            j++;
        }
        koneksi.close();
    } catch (Exception ex) {
        System.err.println("Gagal Mengambil Data Sub Kriteria: "+ex.getMessage());
    }
}

```

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    }
    return data;
}

```

```

public Object[][] getLaporanKrit(String kodeKriteria){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "select k.nama_kriteria,s.nama_sub_kriteria,f.nama_faktor,f.bobot_faktor,
k.bobot_kriteria, s.nilai_profil from kriteria k, sub_kriteria s, faktor f where k.kode_kriteria =
s.kode_kriteria and f.kode_faktor = s.kode_faktor and k.nama_kriteria = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, kodeKriteria);
        ResultSet rsIt = prep.executeQuery();
        ResultSetMetaData metadata = rsIt.getMetaData();
        rsIt.last();
        data = new Object[rsIt.getRow()][metadata.getColumnCount()];
        int j = 0;
        rsIt.beforeFirst();
        while(rsIt.next()){
            data[j][0] = rsIt.getString("nama_kriteria");
            data[j][1] = rsIt.getString("nama_sub_kriteria");
            data[j][2] = rsIt.getString("nama_faktor");
            data[j][3] = rsIt.getInt("bobot_faktor");
            data[j][4] = rsIt.getInt("bobot_kriteria");
            data[j][5] = rsIt.getInt("nilai_profil");
            j++;
        }
        koneksi.close();
    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Sub Kriteria: "+ex.getMessage());
    }
    return data;
}

```

```

public boolean insertSubKriteria(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO sub_kriteria (nama_sub_kriteria,
nilai_profil,kode_kriteria,kode_faktor) "
            + "VALUES (?, ?, ?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);

        prep.setString(1, (String)data[1]);
        prep.setInt(2, (Integer)data[2]);
        prep.setInt(3, (Integer)data[3]);
        prep.setInt(4, (Integer)data[4]);
    }
}

```

```

        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menambah Data Sub Kriteria: "+ex.getMessage());
        return false;
    }
}

public boolean updateSubKriteria(Object data[]) {
    koneksi = new Database().konek();
    try {
        String sql = "UPDATE sub_kriteria SET nama_sub_kriteria = ?, nilai_profil = ?,
kode_faktor = ?, kode_kriteria = ? "
            + "WHERE kode_sub_kriteria = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, (Integer) data[1]);
        prep.setString(2, (String) data[2]);
        prep.setInt(3, (Integer) data[3]);
        prep.setInt(4, (Integer) data[4]);
        prep.setInt(5, (Integer) data[0]);
        prep.execute();

        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Mengubah Data Sub Kriteria: "+ex.getMessage());
        return false;
    }
}

public boolean deleteSubKriteria(int id) {
    koneksi = new Database().konek();
    try {
        String sql = "DELETE FROM sub_kriteria WHERE kode_sub_kriteria = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menghapus Data Sub Kriteria: "+ex.getMessage());
        return false;
    }
}

public Object[][] getNilai() {

```

```

koneksi = new Database().konek();
Object data[][] = null;
try{
    String sql = "SELECT * FROM nilai n, sub_kriteria s "
        + "WHERE n.kode_sub_kriteria = s.kode_sub_kriteria "
        + "ORDER BY n.kode_sub_kriteria AND n.id ASC";
    Statement stmt = koneksi.createStatement();
    ResultSet rslt = stmt.executeQuery(sql);
    rslt.last();
    data = new Object[rslt.getRow()][11];

    int j = 0;
    rslt.beforeFirst();
    while(rslt.next()){
        data[j][0] = rslt.getInt("kode_nilai");
        data[j][1] = rslt.getInt("nilai");
        data[j][2] = rslt.getInt("kode_sub_kriteria");
        data[j][3] = rslt.getInt("id");
        data[j][4] = rslt.getInt("nilai_profil");
        data[j][5] = rslt.getInt("kode_faktor");
        data[j][6] = rslt.getInt("kode_kriteria");

        j++;
    }
    koneksi.close();
} catch (Exception ex){
    System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
}
return data;
}

```

```

public Object[][] getNilaiLaporan(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM sub_kriteria s "
            + "INNER JOIN kriteria k ON s.kode_kriteria = k.kode_kriteria "
            + "INNER JOIN faktor f ON s.id_faktor = f.kode_faktor "
            + "ORDER BY k.kode_kriteria";
        Statement stmt = koneksi.createStatement();
        ResultSet rslt = stmt.executeQuery(sql);
        rslt.last();
        data = new Object[rslt.getRow()][11];

        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){

```

```

        data[j][0] = rslt.getInt("kode_kriteria");
        data[j][1] = rslt.getInt("kode_sub_kriteria");
        data[j][2] = rslt.getInt("kode_faktor");
        data[j][3] = rslt.getString("nama_kriteria");
        data[j][4] = rslt.getString("nama_sub_kriteria");
        data[j][5] = rslt.getString("nama_faktor");
        data[j][6] = rslt.getInt("nilai_profil");

        j++;
    }
    koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
}
return data;
}

```

```

public Object[][] getSFaktor(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try {
        String sql = "select sum(bobot_faktor) as jumlah from faktor";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.execute();
        ResultSet rslt = stmt.executeQuery();
        rslt.last();
        data = new Object[rslt.getRow()][1];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("jumlah");
            j++;
        }
        koneksi.close();
    } catch (Exception ex) {
        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return data;
}

```

```

public Object[][] getSKriteria(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try {
        String sql = "select sum(bobot_kriteria) as jumlah from kriteria";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.execute();
    }
}

```

```

        ResultSet rslt = stmt.executeQuery();
        rslt.last();
        data = new Object[rslt.getRow()][1];
        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("jumlah");
            j++;
        }
        koneksi.close();
    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return data;
}

```

```

public Object[][] getNilaiPenduduk(int kodePenduduk){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM nilai n, sub_kriteria s "
            + "WHERE n.kode_sub_kriteria = s.kode_sub_kriteria "
            + "AND n.id = ? "
            + "ORDER BY n.kode_sub_kriteria";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.setInt(1, kodePenduduk);
        stmt.execute();
        ResultSet rslt = stmt.executeQuery();
        rslt.last();
        data = new Object[rslt.getRow()][8];

        int j = 0;
        rslt.beforeFirst();
        while(rslt.next()){
            data[j][0] = rslt.getInt("kode_nilai");
            data[j][1] = rslt.getInt("nilai");
            data[j][2] = rslt.getInt("kode_sub_kriteria");
            data[j][3] = rslt.getInt("id");
            data[j][4] = rslt.getInt("nilai_profil");
            data[j][5] = rslt.getInt("kode_faktor");
            data[j][6] = rslt.getInt("kode_kriteria");
            data[j][7] = rslt.getString("nama_sub_kriteria");

            j++;
        }
        koneksi.close();
    }catch(Exception ex){

```



```

        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return data;
}

```

```

public int getNilai(int kodeSubKriteria, int kodePenduduk, int kodeOutput){
    koneksi = new Database().konek();
    int hasil = 0;
    try{
        String sql = "SELECT * FROM nilai n, sub_kriteria s "
            + "WHERE n.id_sub_kriteria = s.id_sub_kriteria "
            + "AND s.id_sub_kriteria = ? AND n.id = ? "
            + "ORDER BY n.id_sub_kriteria";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.setInt(1, kodeSubKriteria);
        stmt.setInt(2, kodePenduduk);
        ResultSet rsIt = stmt.executeQuery();

        while(rsIt.next()){
            if (kodeOutput == 0)
                hasil = rsIt.getInt("nilai");
            else if (kodeOutput == 1)
                hasil = rsIt.getInt("nilai_profil");
        }
        koneksi.close();
    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return hasil;
}

```

```

public int[] getNilai(String kriteria, String subKriteria, String penduduk){
    koneksi = new Database().konek();
    int hasil[] = {0, 0, 0, 0};
    try{
        String sql = "SELECT n.kode_nilai, n.nilai, s.kode_sub_kriteria, s.nama_sub_kriteria,
s.nilai_profil, "
            + "f.kode_faktor, f.nama_faktor, f.bobot_faktor, k.kode_kriteria,
k.nama_kriteria, k.bobot_kriteria, "
            + "p.id, p.no_kk "
            + "FROM nilai n, sub_kriteria s, penduduk p, faktor f, kriteria k "
            + "WHERE n.id = p.id "
            + "AND n.kode_sub_kriteria = s.kode_sub_kriteria "
            + "AND s.kode_faktor = f.kode_faktor AND k.kode_kriteria = s.kode_kriteria "
            + "AND k.nama_kriteria = ? AND s.nama_sub_kriteria = ? AND p.no_kk = ? "
            + "ORDER BY n.kode_nilai";
        PreparedStatement stmt = koneksi.prepareStatement(sql);

```

```

        stmt.setString(1, kriteria);
        stmt.setString(2, subKriteria);
        stmt.setString(3, penduduk);
        ResultSet rslt = stmt.executeQuery();
        while(rslt.next()){
            hasil[0] = rslt.getInt("kode_nilai");
            hasil[1] = rslt.getInt("id");
            hasil[2] = rslt.getInt("kode_sub_kriteria");
            hasil[3] = rslt.getInt("nilai");
        }
    } catch (Exception ex) {
        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return hasil;
}

```

```

public boolean insertNilai(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO nilai (id, kode_sub_kriteria, nilai) "
            + "VALUES (?, ?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, (Integer)data[1]);
        prep.setInt(2, (Integer)data[2]);
        prep.setInt(3, (Integer)data[3]);
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex){
        System.err.println("Gagal Menambah Data Nilai: "+ex.getMessage());
        return false;
    } }

```

```

public boolean updateNilai(Object data[]){
    koneksi = new Database().konek();
    try{
        String sql = "UPDATE nilai SET id = ?, kode_sub_kriteria = ?, nilai = ? "
            + "WHERE kode_nilai = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, (Integer) data[1]);
        prep.setInt(2, (Integer) data[2]);
        prep.setInt(3, (Integer) data[3]);
        prep.setInt(4, (Integer) data[0]);
        prep.execute();

        System.out.println("UPDATE nilai SET id = "+data[1]+", kode_sub_kriteria = 
"+data[2]+", nilai = "+data[3]+" "
            + "WHERE kode_nilai = "+data[0]);
    }
}

```

```

        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Mengubah Data Nilai: "+ex.getMessage());
        return false;
    }
}

public boolean deleteNilai(int id){
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM nilai WHERE kode_nilai = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data Nilai: "+ex.getMessage());
        return false;
    }
}

public boolean deleteNilai(int kodeKriteria, int kodePelamar) {
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM nilai WHERE id = ? "
            + "AND kode_sub_kriteria IN "
            + "(SELECT s.kode_sub_kriteria FROM sub_kriteria s "
            + "INNER JOIN kriteria k ON k.kode_kriteria = s.kode_kriteria "
            + "AND k.kode_kriteria = ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, kodePelamar);
        prep.setInt(2, kodeKriteria);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data Nilai: "+ex.getMessage());
        return false;
    }
}

public Object[][] getFaktor(){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM faktor ORDER BY kode_faktor";
    }

```

```

Statement stmt = koneksi.createStatement();
ResultSet rsIt = stmt.executeQuery(sql);
ResultSetMetaData metadata = rsIt.getMetaData();
rsIt.last();
data = new Object[rsIt.getRow()][metadata.getColumnCount()];

int j = 0;
rsIt.beforeFirst();
while(rsIt.next()){
    data[j][0] = rsIt.getInt("kode_faktor");
    data[j][1] = rsIt.getString("nama_faktor");
    data[j][2] = rsIt.getInt("bobot_faktor");
    j++;
}
koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Faktor: "+ex.getMessage());
}
return data;
}

public boolean insertFaktor(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO faktor (nama_faktor, bobot_faktor) "
            + "VALUES (?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String) data[1]);
        prep.setInt(2, (Integer) data[2]);
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menambah Data Faktor: "+ex.getMessage());
        return false;
    }
}

public boolean updateFaktor(Object data[]){
    koneksi = new Database().konek();
    try{
        String sql = "UPDATE faktor SET nama_faktor = ?, bobot_faktor = ? "
            + "WHERE kode_faktor = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setString(1, (String) data[1]);
        prep.setInt(2, (Integer) data[2]);
        prep.setInt(3, (Integer) data[0]);
        prep.execute();
    }
}

```

```

        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Mengubah Data Faktor: "+ex.getMessage());
        return false;
    }
}

public boolean deleteFaktor(int id){
    koneksi = new Database().konek();
    try{
        String sql = "DELETE FROM faktor WHERE kode_faktor = ?";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        prep.setInt(1, id);
        prep.execute();
        koneksi.close();
        return true;
    }catch(Exception ex){
        System.err.println("Gagal Menghapus Data Faktor: "+ex.getMessage());
        return false;
    }
}

public Object[][] getNilaiByVar(int kodeKriteria, int kodePenduduk, int kodeFaktor){
    koneksi = new Database().konek();
    Object data[][] = null;
    try{
        String sql = "SELECT * FROM sub_kriteria s "
            + "INNER JOIN nilai n ON s.kode_sub_kriteria = n.kode_sub_kriteria "
            + "INNER JOIN penduduk p ON p.id= n.id "
            + "INNER JOIN kriteria k ON k.kode_kriteria = s.kode_kriteria "
            + "INNER JOIN faktor f ON f.kode_faktor = s.kode_faktor "
            + "WHERE s.kode_kriteria = ? AND p.id = ? AND f.kode_faktor = ?";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.setInt(1, kodeKriteria);
        stmt.setInt(2, kodePenduduk);
        stmt.setInt(3, kodeFaktor);
        ResultSet rs = stmt.executeQuery();
        ResultSetMetaData metaData = rs.getMetaData();
        rs.last();
        data = new Object[rs.getRow()][13];
        int j = 0;
        rs.beforeFirst();
        while(rs.next()){
            data[j][0] = rs.getInt("kode_sub_kriteria");
            data[j][1] = rs.getInt("kode_nilai");
            data[j][2] = rs.getInt("kode_kriteria");
            data[j][3] = rs.getInt("id");
            data[j][4] = rs.getInt("kode_faktor");

```

```

        data[j][5] = rslt.getString("Nama_KK");
        data[j][6] = rslt.getInt("nilai");
        data[j][7] = rslt.getString("nama_sub_kriteria");
        data[j][8] = rslt.getInt("nilai_profil");
        data[j][9] = rslt.getString("nama_kriteria");
        data[j][10] = rslt.getInt("bobot_kriteria");
        data[j][11] = rslt.getString("nama_faktor");
        data[j][12] = rslt.getInt("bobot_faktor");
        j++;
    }
    koneksi.close();
} catch (Exception ex) {
    System.err.println("Gagal Mengambil Data Nilai Hitung: "+ex.getMessage());
}
return data;
}

public boolean insertNilaiPenduduk(Object data[]) {
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO nilai_penduduk (id,no_kk, luas_lantai, "
            + "jenis_dinding, jenis_lantai, Penerangan, sarana_memasak, "
            + "Air_Minum, jumlah_penghasilan,
pendidikan,Sanggup_pakaian,Sanggup_kesehatan) "
            + "VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        for (int i = 2; i < data.length; i++) {
            prep.setInt(1, (Integer) data[0]);
            prep.setString(2, data[1].toString());
            prep.setInt(i+1, (Integer) data[i]);
        }
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menambah Data Nilai Penduduk: "+ex.getMessage());
        return false;
    }
}

public boolean deleteNilaiAkhir() {
    koneksi = new Database().konek();
    try {
        String sql = "DELETE FROM nilai_akhir";
        Statement prep = koneksi.createStatement();
        boolean hasil = prep.execute(sql);
        koneksi.close();
        return hasil;
    } catch (Exception ex) {

```

```

        System.err.println("Gagal Menambah Data Nilai Akhir: "+ex.getMessage());
        return false;
    }
}

public boolean deleteNilaiPenduduk(){
    koneksi = new Database().konek();
    try {
        String sql = "DELETE FROM nilai_penduduk";
        Statement prep = koneksi.createStatement();
        boolean hasil = prep.execute(sql);
        koneksi.close();
        return hasil;
    } catch (Exception ex){
        System.err.println("Gagal Hapus Data Nilai Penduduk: "+ex.getMessage());
        return false;
    }
}

public boolean deleteKP(){
    koneksi = new Database().konek();
    try {
        String sql = "DELETE FROM KP";
        Statement prep = koneksi.createStatement();
        boolean hasil = prep.execute(sql);
        koneksi.close();
        return hasil;
    } catch (Exception ex){
        System.err.println("Gagal Hapus Data Nilai Penduduk: "+ex.getMessage());
        return false;
    }
}

public boolean insertKP(Object data[]){
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO KP (nama_kriteria,
nama_sub_kriteria,nama_faktor,bobot_faktor,bobot_kriteria,nilai_profil) "
        + "VALUES (?, ?, ?, ?, ?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        for (int i = 0; i < data.length;i++) {
            prep.setString(1,data[0].toString());
            prep.setString(2,data[1].toString());
            prep.setString(3,data[2].toString());
            prep.setInt(4,(Integer)data[3]);
            prep.setInt(5,(Integer)data[4]);
            prep.setInt(6,(Integer)data[5]);
        }
        prep.execute();
        koneksi.close();
    }
}

```

```

        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menambah Data Nilai Penduduk: "+ex.getMessage());
        return false;
    }
}

public boolean insertNA(Object data[]) {
    koneksi = new Database().konek();
    try {
        String sql = "INSERT INTO nilai_akhir (no_kk, nilai_akhir, status, Periode) "
            + "VALUES (?, ?, ?, ?)";
        PreparedStatement prep = koneksi.prepareStatement(sql);
        for (int i = 0; i < data.length; i++) {
            prep.setString(1, data[0].toString());
            prep.setString(2, data[1].toString());
            prep.setString(3, data[3].toString());
            prep.setString(4, data[2].toString());
        }
        prep.execute();
        koneksi.close();
        return true;
    } catch (Exception ex) {
        System.err.println("Gagal Menambah Data Nilai Penduduk: "+ex.getMessage());
        return false;
    }
}
}

```

```

public int[] getNilaiN(String kriteria, String subKriteria, int penduduk) {
    koneksi = new Database().konek();
    int hasil[] = {0, 0, 0, 0};
    try {
        String sql = "SELECT n.kode_nilai, n.nilai, s.kode_sub_kriteria, s.nama_sub_kriteria, "
            + "s.nilai_profil, "
            + "f.kode_faktor, f.nama_faktor, f.bobot_faktor, k.kode_kriteria, "
            + "k.nama_kriteria, k.bobot_kriteria, "
            + "p.id, p.no_kk "
            + "FROM nilai n, sub_kriteria s, penduduk p, faktor f, kriteria k "
            + "WHERE n.id = p.id "
            + "AND n.kode_sub_kriteria = s.kode_sub_kriteria "
            + "AND s.kode_faktor = f.kode_faktor AND k.kode_kriteria = s.kode_kriteria "
            + "AND k.nama_kriteria = ? AND s.nama_sub_kriteria = ? AND p.id = ? "
            + "ORDER BY n.kode_nilai";
        PreparedStatement stmt = koneksi.prepareStatement(sql);
        stmt.setString(1, kriteria);
        stmt.setString(2, subKriteria);
        stmt.setInt(3, penduduk);
        ResultSet rsIt = stmt.executeQuery();
    }
}

```



```

        while(rslt.next()){
            hasil[0] = rslt.getInt("kode_nilai");
            hasil[1] = rslt.getInt("id");
            hasil[2] = rslt.getInt("kode_sub_kriteria");
            hasil[3] = rslt.getInt("nilai");
        }
    }catch(Exception ex){
        System.err.println("Gagal Mengambil Data Nilai: "+ex.getMessage());
    }
    return hasil;
}
}

```

Table.java

```

package skripsi;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableColumn;
public class Table {
    public void createTable(JTable tabel, int lebar[], int tinggi){
        tabel.setAutoResizeMode(tabel.AUTO_RESIZE_OFF);
        int kolom = tabel.getColumnCount();
        for (int i = 0; i < kolom; i++) {
            TableColumn tabelKolom = tabel.getColumnModel().getColumn(i);
            tabelKolom.setPreferredWidth(lebar[i]);
            tabel.setRowHeight(tinggi);
        }
    }
    public DefaultTableModel getDefaultTabelModel(String judul[]) {
        final boolean[] editable = new boolean[judul.length];
        for (int i = 0; i < editable.length; i++) {
            editable[i] = false;
        }
        return new DefaultTableModel(
            new Object[][]{},
            judul ){
            boolean canEdit[] = editable;

            @Override
            public boolean isCellEditable(int rowIndex, int columnIndex){
                return canEdit[columnIndex];
            }
        };
    }
    public DefaultTableModel getDefaultTabelModel(String judul[], boolean[] edit) {
        final boolean[] editable = edit;
        return new DefaultTableModel(
            new Object[][]{},

```

```

        judul ){
        boolean canEdit[] = editable;

        @Override
        public boolean isCellEditable(int rowIndex, int columnIndex){
            return canEdit[columnIndex];
        }
    };
} }

```

Skripsi.java

```

package skripsi;

public class Skripsi {
    public static void main(String[] args) {
        new LoginUser().setVisible(true);
    }
}

```

LoginUser.java

```

package skripsi;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
public class LoginUser extends javax.swing.JFrame {
    private String username;
    private String password;

    public LoginUser() {
        initComponents();
        setLocationRelativeTo(null);
    }
    private boolean validasi(JTextField txtuser, JPasswordField txtpass) {
        if (txtuser.getText().isEmpty()){
            JOptionPane.showMessageDialog(null, "Username Harus Diisi!", "Peringatan",
JOptionPane.WARNING_MESSAGE);
            txtuser.requestFocus();
            return false;
        } else if (txtpass.getText().isEmpty()){
            JOptionPane.showMessageDialog(null, "Password Harus Diisi!", "Peringatan",
JOptionPane.WARNING_MESSAGE);
            txtpass.requestFocus();
            return false;
        } else {
            return true;
        }
    }
}

```

```

    } }
    private String login(String username, String password){
        Database database = new Database();
        return database.login(username, password);
    }
    private void loginActionPerformed(java.awt.event.ActionEvent evt) {
        if (validasi(txtuser, txtpass)){
            username = txtuser.getText();
            password = txtpass.getText();
            String jabatan = login(username, password);
            if (jabatan.isEmpty()){
                JOptionPane.showMessageDialog(null, "Login Gagal!", "Peringatan",
JOptionPane.WARNING_MESSAGE);
                txtuser.requestFocus();
            } else if (jabatan.equals("lurah")){
                new MenuUtama("lurah").setVisible(true);
                dispose();
            } else if (jabatan.equals("perangkat desa")){
                new MenuUtama("perangkat desa").setVisible(true);
                dispose();
            }
        }
    }
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(LoginUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(LoginUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(LoginUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(LoginUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new LoginUser().setVisible(true);
            }
        });
    }

```

```

    });
}
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JButton login;
private javax.swing.JPasswordField txtpass;
private javax.swing.JTextField txtuser;
}

```

MenuUtama.java

```

package skripsi;
import java.util.HashMap;
import java.util.Map;
import java.sql.Connection;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.view.JasperViewer;
public class MenuUtama extends javax.swing.JFrame {
private static String posisi;
    public MenuUtama(String posisi) {
        initComponents();
        setLocationRelativeTo(null);
        MenuUtama.posisi = posisi;
        if (posisi == "lurah"){
            menuuser.setEnabled(true);
            menufaktor.setEnabled(false);
            menukriteria.setEnabled(false);
            menusubkriteria.setEnabled(false);
            menupenduduk.setEnabled(false);
            menunilai.setEnabled(false);
            menuperhitungan.setEnabled(false);
            menupenerima.setEnabled(true);
            lappenduduk.setEnabled(false);
            lapnilai.setEnabled(false);
            menukritNsubkrit.setEnabled(false);
        } else if (posisi == "perangkat desa"){
            menuuser.setEnabled(false);
            menufaktor.setEnabled(true);
            menukriteria.setEnabled(true);
            menusubkriteria.setEnabled(true);
            menupenduduk.setEnabled(true);
            menunilai.setEnabled(true);

```

```

        menuperhitungan.setEnabled(true);
        menupenerima.setEnabled(true);
        lappenduduk.setEnabled(true);
        lapnilai.setEnabled(true);
        menukritNsubkrit.setEnabled(true);
    } }
private void menuuserMenuKeyPressed(javax.swing.event.MenuKeyEvent evt) {
    new User().setVisible(true);
}

private void menupendudukActionPerformed(java.awt.event.ActionEvent evt) {
    new Penduduk().setVisible(true);
}
private void menufaktorActionPerformed(java.awt.event.ActionEvent evt) {
    new Faktor().setVisible(true);
}
private void menukriteriaActionPerformed(java.awt.event.ActionEvent evt) {
    new Kriteria().setVisible(true);
}
private void menubkriteriaActionPerformed(java.awt.event.ActionEvent evt) {
    new SubKriteria().setVisible(true);
}
private void menubkriteriaMenuKeyPressed(javax.swing.event.MenuKeyEvent evt) {
    new Kriteria().setVisible(true);
}
private void menunilaiActionPerformed(java.awt.event.ActionEvent evt) {
    new Nilai().setVisible(true);
}
private void menuperhitunganActionPerformed(java.awt.event.ActionEvent evt) {
    new Perhitungan().setVisible(true);
}
private void menupenerimaActionPerformed(java.awt.event.ActionEvent evt) {
    new LaporanHasil().setVisible(true);
}
private void lappendudukActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        Connection database = new Database().konek();
        Map prs = new HashMap();
        JasperReport JRpt =
JasperCompileManager.compileReport("src/skripsi/laporan/laporanpenduduk.jrxml");
        JasperPrint JPrint = JasperFillManager.fillReport(JRpt, prs , database);
        JasperViewer.viewReport(JPrint, false);
    }
    catch(Exception rpt){
        System.out.println("tidak dapat menampilkan karena : "+rpt);
    }
}

```

```

private void lapnilaiActionPerformed(java.awt.event.ActionEvent evt) {
    new LaporanNilai().setVisible(true);
}
private void menukritNsubkritActionPerformed(java.awt.event.ActionEvent evt) {
    new LaporanSubKriteria().setVisible(true);
}
public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
java.util.logging.Logger.getLogger(MenuUtama.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
        } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(MenuUtama.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(MenuUtama.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(MenuUtama.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new MenuUtama(posisi).setVisible(true);
            }
        });
    }
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu2;
    private javax.swing.JMenuBar jMenuBar1;
    private javax.swing.JMenuItem lapnilai;
    private javax.swing.JMenuItem lappenduduk;
    private javax.swing.JMenuItem menufaktor;
    private javax.swing.JMenuItem menukritNsubkrit;
    private javax.swing.JMenuItem menukriteria;
    private javax.swing.JMenuItem menunilai;
    private javax.swing.JMenuItem menupenduduk;
    private javax.swing.JMenuItem menupenerima;
    private javax.swing.JMenuItem menuperhitungan;
    private javax.swing.JMenuItem menesubkriteria;

```

```

    private javax.swing.JMenuItem menuuser;
}

```

Faktor.java

```

package skripsi;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class Faktor extends javax.swing.JFrame {
    private int kodeFaktor;
    private String namaFaktor;
    private int bobotFaktor;
    private boolean ubah;
    private DefaultTableModel tabelModel;
    public Faktor() {
        initComponents();
        showTable(tabel, tabelModel);
    }
    private void batal(boolean b){
        txtnamafaktor.setEnabled(b);
        txtbobotfaktor.setEnabled(b);
    }
    private void kosong(){
        txtkodefaktor.setText("");
        txtnamafaktor.setText("");
        txtbobotfaktor.setText("");
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
        Database database = new Database();
        try {
            Object[][] data = database.getFaktor();
            Object[] dataTable = new Object[data[0].length+1];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"Kode Faktor", "Nama Faktor", "Bobot Faktor"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);
            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(false);
            }

            tabelModel.setRowCount(0);
            for (int i = 0; i < data.length; i++) {
                dataTable[0] = data[i][0];
                dataTable[1] = data[i][1];
            }
        }
    }
}

```

```

        dataTable[2] = data[i][2];
        tabelModel.addRow(dataTable);
    }
    return true;
} catch (Exception e) {
    return false;
} }

private int getInt(JTextField txtkodefaktor){
    int hasil = 0;
    try {
        hasil = Integer.parseInt(txtkodefaktor.getText());
    } catch (NumberFormatException numberFormatException) {
    }
    return hasil;
}

private void ubah(){
    if(tabel.getSelectedRow() >= 0){
        try {
            int baris = tabel.getSelectedRow();
            kodeFaktor = (Integer) tabel.getValueAt(baris, 0);
            namaFaktor = (String) tabel.getValueAt(baris, 1);
            bobotFaktor = (Integer) tabel.getValueAt(baris, 2);
            txtkodefaktor.setText("" + kodeFaktor);
            txtnamafaktor.setText(namaFaktor);
            txtbobotfaktor.setText("" + bobotFaktor);
        } catch (Exception e) {
        } }
    else{
        JOptionPane.showMessageDialog(null, "Pilih Data Yang akan diedit", "Pemberitahuan",
        JOptionPane.INFORMATION_MESSAGE);
    }
}

private void hapus(int idUser){
    Database database = new Database();
    if (database.deleteFaktor(idUser)){
        JOptionPane.showMessageDialog(null, "Berhasil Menghapus Data Faktor",
        "Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, "Gagal Menghapus Data Faktor",
        "Peringatan", JOptionPane.WARNING_MESSAGE);
    } }

private void simpan(int kodeFaktor, String namaFaktor, int bobotFaktor, boolean ubah){
    Database database = new Database();
    Object[] data = {kodeFaktor, namaFaktor, bobotFaktor};
    if (!ubah){
        if(validasi()){
            if (database.insertFaktor(data)){

```



```

        JOptionPane.showMessageDialog(null, "Berhasil Menginput Data Faktor",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, "Gagal Menginput Data Faktor",
"Peringatan", JOptionPane.WARNING_MESSAGE);
    }
} else {
    if (validasif()){

        if (database.updateFaktor(data)){
            JOptionPane.showMessageDialog(null, "Berhasil Mengupdate Data Faktor",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(null, "Gagal Mengupdate Data Faktor",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
        }
    } }
private boolean validasi(JTextField txtnamafaktor, JTextField txtbobotfaktor){
    if (txtnamafaktor.getText().equals("")){
        JOptionPane.showMessageDialog(null, "Nama Kriteria Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
        return false;
    } else if (txtbobotfaktor.getText().equals("")){
        JOptionPane.showMessageDialog(null, "Persentasi Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
        return false;
    } else {
        return true;
    }
}
private boolean validasif(){
Database database = new Database();
int row = tabel.getSelectedRow();
int databaru = Integer.parseInt(txtbobotfaktor.getText());
int datalama = (Integer) tabel.getValueAt(row, 2);
try {
int hasil = 0;
Object[][] data = database.getSFaktor();
for (int i = 0; i < data.length; i++) {
    hasil = (Integer) data[i][0];
    int result = (hasil-datalama)+databaru;
    if (result > 100){
        JOptionPane.showMessageDialog(null, "Bobot faktor sudah mencapai maksimal",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
        return false;
    }
}
return true;
}
}

```

```

        catch (Exception e) {
            return false;
        }
    }
    private boolean validasiv(){
        Database database = new Database();
        try {
            int hasil = 0;
            Object[][] data = database.getSFaktor();
            for (int i = 0; i < data.length; i++) {
                hasil = (Integer) data[i][0];
                if (hasil >= 100){
                    JOptionPane.showMessageDialog(null, "Bobot faktor sudah mencapai maksimal",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
                    return false;
                }
            }
            return true;
        }
        catch (Exception e) {
            return false;
        }
    }
    private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            int baris = tabel.getSelectedRow();
            kodeFaktor = (Integer) tabel.getValueAt(baris, 0);
            int jawab = JOptionPane.showOptionDialog(null, "Anda Yakin Akan Menghapus data
ini?", "Pertanyaan", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,
null,new String[]{"Ya", "Tidak"},null);
            if (jawab == 0) {
                hapus(kodeFaktor);
                showTable(tabel, tabelModel);
            } else {
            }
        } catch (Exception e) {
            JOptionPane.showMessageDialog(null, "Pilih Data Yang Akan Dihapus Dulu",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
        }
    }
    private void btnbatalActionPerformed(java.awt.event.ActionEvent evt) {
        kosong();
    }
    private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
        ubah = false;
        batal(true);
        btnsimpan.setEnabled(true);
        btnbatal.setEnabled(true);
    }

```

```

private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = true;
    ubah();
    batal(false);
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    kodeFaktor = getInt(txtkodefaktor);
    namaFaktor = txtnamafaktor.getText();
    bobotFaktor = getInt(txtbobotfaktor);
    if (validasi(txtnamafaktor, txtbobotfaktor)) {
        simpan(kodeFaktor, namaFaktor, bobotFaktor, ubah);
        btnsimpan.setEnabled(false);
        btnbatal.setEnabled(false);
        batal(false);
        showTable(tabel, tabelModel);
    }
    kodeFaktor = getInt(txtkodefaktor);
    namaFaktor = txtnamafaktor.getText();
    bobotFaktor = getInt(txtbobotfaktor);
    if (validasi(txtnamafaktor, txtbobotfaktor)) {
        simpan(kodeFaktor, namaFaktor, bobotFaktor, ubah);
        btnsimpan.setEnabled(false);
        btnbatal.setEnabled(false);
        batal(false);
        showTable(tabel, tabelModel);
    }
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Faktor.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Faktor.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Faktor.class.getName()).log(java.util.logging.Level.SEVERE
        , null, ex);
    }
}

```

```

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Faktor.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Faktor().setVisible(true);
            }
        });
    }
    private javax.swing.JButton btnbatal;
    private javax.swing.JButton btnhapus;
    private javax.swing.JButton btnsimpan;
    private javax.swing.JButton btntambah;
    private javax.swing.JButton btnubah;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tabel;
    private javax.swing.JTextField txtbobotfaktor;
    private javax.swing.JTextField txtkodefaktor;
    private javax.swing.JTextField txtnamafaktor;
}

```

Kriteria.java

```

package skripsi;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class Kriteria extends javax.swing.JFrame {

    private int kodeKriteria;
    private String namaKriteria;
    private int bobotKriteria;
    private boolean ubah;
    private DefaultTableModel tabelModel;
    public Kriteria() {
        initComponents();
    }
}

```

```

        showTable(tabel, tabelModel);
    }
    private void batal(boolean b){
        txtnamakrit.setEnabled(b);
        txtbobotkrit.setEnabled(b);
    }
    private void kosong(){
        txtkodekrit.setText("");
        txtnamakrit.setText("");
        txtbobotkrit.setText("");
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
        Database database = new Database();
        try {
            Object[][] data = database.getKriteria();
            Object[] dataTable = new Object[data[0].length+1];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"Kode Kriteria", "Nama Kriteria", "Bobot Kriteria"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);
            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(false);
            }
            tabelModel.setRowCount(0);
            for (int i = 0; i < data.length; i++) {
                dataTable[0] = data[i][0];
                dataTable[1] = data[i][1];
                dataTable[2] = data[i][2];
                tabelModel.addRow(dataTable);
            }
            return true;
        } catch (Exception e) {
            return false;
        } }
    private int getInt(JTextField txtkodekriteria){
        int hasil = 0;
        try {
            hasil = Integer.parseInt(txtkodekriteria.getText());
        } catch (NumberFormatException numberFormatException) {
        }
        return hasil;
    }
    private void ubah(){
        if(tabel.getSelectedRow() >= 0){
            try {

```

```

        int baris = tabel.getSelectedRow();
        kodeKriteria = (Integer) tabel.getValueAt(baris, 0);
        namaKriteria = (String) tabel.getValueAt(baris, 1);
        bobotKriteria = (Integer) tabel.getValueAt(baris, 2);
        txtkodekrit.setText("" + kodeKriteria);
        txtnamakrit.setText(namaKriteria);
        txtbobotkrit.setText("" + bobotKriteria);
    } catch (Exception e) {
    }
    else{
        JOptionPane.showMessageDialog(null, "Pilih Data Yang akan diedit", "Pemberitahuan",
        JOptionPane.INFORMATION_MESSAGE);
    } }

    private void hapus(int id){
        Database database = new Database();
        if (database.deleteKriteria(id)){
            JOptionPane.showMessageDialog(null, "Berhasil Menghapus Data Kriteria",
            "Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(null, "Gagal Menghapus Data Kriteria",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
        } }

        private void simpan(int kodeKriteria, String namaKriteria, int bobotKriteria, boolean
        ubah){
            Database database = new Database();
            Object[] data = {kodeKriteria, namaKriteria, bobotKriteria};
            if (!ubah){
                if (validasiv()){
                    if (database.insertKriteria(data)){
                        JOptionPane.showMessageDialog(null, "Berhasil Menginput Data Kriteria",
                        "Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
                    } else {
                        JOptionPane.showMessageDialog(null, "Gagal Menginput DataKriteria",
                        "Peringatan", JOptionPane.WARNING_MESSAGE);
                    }
                }
            }
            else {
                if (validasif()){
                    if (database.updateKriteria(data)){
                        JOptionPane.showMessageDialog(null, "Berhasil Mengupdate Data Kriteria",
                        "Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
                    } else {
                        JOptionPane.showMessageDialog(null, "Gagal Mengupdate Data Kriteria",
                        "Peringatan!", JOptionPane.WARNING_MESSAGE);
                    }
                }
            }
        } }

        private boolean validasi(JTextField txtnamakriteria, JTextField txtbobotkriteria){

```

```

        if (txtnamakriteria.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Nama Kriteria Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
            return false;
        } else if (txtbobotkriteria.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Persentasi Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
            return false;
        } else {
            return true;
        } }

private boolean validasif(){
    Database database = new Database();
    int row = tabel.getSelectedRow();
    int databaru = Integer.parseInt(txtbobotkrit.getText());
    int datalama = (Integer) tabel.getValueAt(row, 2);
    try {
        int hasil = 0;
        Object[][] data = database.getSKriteria();
        for (int i = 0; i < data.length; i++) {
            hasil = (Integer) data[i][0];
            int result = (hasil-datalama)+databaru;
            if (result > 100){
                JOptionPane.showMessageDialog(null, "Bobot kriteria sudah mencapai maksimal",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
                return false;
            }
        }
        return true;
    }
    catch (Exception e) {
        return false;
    } }

private boolean validasiv(){
    Database database = new Database();
    try {
        int hasil = 0;
        Object[][] data = database.getSKriteria();
        for (int i = 0; i < data.length; i++) {
            hasil = (Integer) data[i][0];
            if (hasil >= 100){
                JOptionPane.showMessageDialog(null, "Bobot kriteria sudah mencapai maksimal",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
                return false;
            }
        }
        return true;
    }

```

```

    }
    catch (Exception e) {
        return false;
    }
}

private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {
try {
    int baris = tabel.getSelectedRow();
    kodeKriteria = (Integer) tabel.getValueAt(baris, 0);
    int jawab = JOptionPane.showOptionDialog(null, "Anda Yakin Akan Menghapus data
ini?", "Pertanyaan", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,
null, new String[]{"Ya", "Tidak"}, null);
    if (jawab == 0) {
        hapus(kodeKriteria);
        showTable(tabel, tabelModel);
    } else {
    }
} catch (Exception e) {
    JOptionPane.showMessageDialog(null, "Pilih Data Yang Akan Dihapus Dulu",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
}
}

private void btnbatalActionPerformed(java.awt.event.ActionEvent evt) {
kosong();
}

private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    kosong();
    ubah = false;
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = true;
    ubah();
    batal(false);
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    kodeKriteria = getInt(txtkodekrit);
    namaKriteria = txtnamakrit.getText();
    bobotKriteria = getInt(txtbobotkrit);
    if (validasi(txtnamakrit, txtbobotkrit)) {
        simpan(kodeKriteria, namaKriteria, bobotKriteria, ubah);
    }
}

```



```

        btnsimpan.setEnabled(false);
        btnbatal.setEnabled(false);
        batal(false);
        showTable(tabel, tabelModel);
    }}
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Kriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Kriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Kriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Kriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new Kriteria().setVisible(true);
            }
        });
    }
    private javax.swing.JButton btnbatal;
    private javax.swing.JButton btnhapus;
    private javax.swing.JButton btnsimpan;
    private javax.swing.JButton btntambah;
    private javax.swing.JButton btnubah;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;

```

```

private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
private javax.swing.JTextField txtbobotkrit;
private javax.swing.JTextField txtkodekrit;
private javax.swing.JTextField txtnamakrit;
}

```

Subkriteria.java

```

package skripsi;
import javax.swing.JComboBox;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class SubKriteria extends javax.swing.JFrame {

    public static int kodeKriteria[];
    private String namaKriteria;
    private int kodeSubKriteria;
    private String namaSubKriteria;
    private int NilaiProfil;
    public static int kodeFaktor[];
    private String namaFaktor;
    private boolean ubah;
    private DefaultTableModel tabelModel;
    public SubKriteria() {
        initComponents();
        kodeKriteria = createComboKriteria(cmbkriteria);
        kodeFaktor = createComboFaktor(cmbfaktor);
        showTable(tabel, tabelModel);
    }
    public static int[] createComboKriteria(JComboBox cmbKriteria){
        int[] hasil = null;
        Database database = new Database();
        try {
            Object[][] data = database.getKriteria();
            hasil = new int[data.length];
            cmbKriteria.removeAllItems();

            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                cmbKriteria.addItem(data[i][1]);
            }
        } catch (Exception e) {

```

```

        e.printStackTrace();
    }
    return hasil;
}

public static int[] createComboFaktor(JComboBox cmbFaktor){
    int[] hasil = null;
    Database database = new Database();
    try {
        Object[][] data = database.getFaktor();
        hasil = new int[data.length];
        cmbFaktor.removeAllItems();

        for (int i = 0; i < data.length; i++) {
            hasil[i] = (Integer) data[i][0];
            cmbFaktor.addItem(data[i][1]);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
    return hasil;
}

private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
    Database database = new Database();
    try {
        Object[][] data = database.getSubKriteria();
        Object[] dataTable = new Object[data[0].length+1];
        Table createTable = new Table();
        tabelModel = createTable.getDefaultTableModel(
            new String[]{"Kode Sub Kriteria", "Nama Sub Kriteria", "Nilai Profil", "Nama Kriteria",
"Faktor",});
        tabel.setModel(tabelModel);
        tabel.getTableHeader().setResizingAllowed(false);
        tabel.getTableHeader().setReorderingAllowed(false);

        for (int i = 0; i < tabel.getColumnCount(); i++) {
            tabel.getColumnModel().getColumn(i).setResizable(false);
        }

        tabelModel.setRowCount(0);
        for (int i = 0; i < data.length; i++) {
            dataTable[0] = data[i][0];
            dataTable[1] = data[i][1];
            dataTable[2] = data[i][2];
            dataTable[3] = data[i][7];
            dataTable[4] = data[i][4];
            tabelModel.addRow(dataTable);
        }
    }
}

```

```

        return true;
    } catch (Exception e) {
        return false;
    } }
private int getInt(JTextField a){
    int hasil = 0;
    try {
        hasil = Integer.parseInt(a.getText());
    } catch (NumberFormatException numberFormatException) {
    }
    return hasil;
}
private void ubah(){
    if(tabel.getSelectedRow() >=0 ){
        int baris = tabel.getSelectedRow();
        namaKriteria = (String) tabel.getValueAt(baris, 3);
        kodeSubKriteria = (Integer) tabel.getValueAt(baris,0);
        namaSubKriteria = (String) tabel.getValueAt(baris,1);
        NilaiProfil = (Integer) tabel.getValueAt(baris, 2);
        namaFaktor= (String) tabel.getValueAt(baris,4);

        txtkodesubkrit.setText(""+kodeSubKriteria);
        txtnamasubkrit.setText(namaSubKriteria);
        txtnilaiprofil.setText(""+NilaiProfil);
        cmbkriteria.setSelectedItem(namaKriteria);
        cmbfaktor.setSelectedItem(namaFaktor);
    }
    else{
        JOptionPane.showMessageDialog(null, "Pilih Data Yang akan diedit", "Pemberitahuan",
JOptionPane.INFORMATION_MESSAGE);
    }
}

private void hapus(int id){
    Database database = new Database();
    if (database.deleteSubKriteria(id)){
        JOptionPane.showMessageDialog(null, "Berhasil Menghapus Data Sub Kriteria",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, "Gagal Menghapus Data Sub Kriteria",
"Peringatan", JOptionPane.WARNING_MESSAGE);
    } }
private void simpan(int kodeSubKriteria, String namaSubKriteria, int NilaiProfil, int
kodeKriteria, int kodeFaktor, boolean ubah){
    Database database = new Database();
    Object[] data = {kodeSubKriteria, namaSubKriteria, NilaiProfil, kodeKriteria,
kodeFaktor};

```

```

        if (!ubah){
            if (database.insertSubKriteria(data)){
                JOptionPane.showMessageDialog(null, "Berhasil Menginput Data Sub Kriteria",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(null, "Gagal Menginput Data Sub Kriteria",
"Peringatan", JOptionPane.WARNING_MESSAGE);
            }
        } else {
            if (database.updateSubKriteria(data)){
                JOptionPane.showMessageDialog(null, "Berhasil Mengupdate Data Sub Kriteria",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(null, "Gagal Mengupdate Data Sub Kriteria",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
            }
        } }
    private void batal(boolean b){

        txtkodesubkrit.setEnabled(b);
        txtnamasubkrit.setEnabled(b);
        cmbfaktor.setEnabled(b);
        txtnilaiprofil.setEnabled(b);
        cmbkriteria.setEnabled(b);
    }
    private void kosong(){
        txtkodesubkrit.setText("");
        txtnamasubkrit.setText("");
        txtnilaiprofil.setText("");
        cmbfaktor.setSelectedIndex(0);
        cmbkriteria.setSelectedIndex(0);
    }

    private boolean validasi(JTextField namasubkriteria, JTextField nilaiprofil){
        if (namasubkriteria.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Nama Sub Kriteria Harus Diisi!",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
            return false;
        } else if (nilaiprofil.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Bobot Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
            return false;
        } else {
            return true;
        } }
    private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {
        try {

```

```

        int baris = tabel.getSelectedRow();
        kodeSubKriteria = (Integer) tabel.getValueAt(baris, 0);
        int jawab = JOptionPane.showOptionDialog(null, "Anda Yakin Akan Menghapus data
ini?", "Pertanyaan", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,
null,new String[]{"Ya", "Tidak"},null);
        if (jawab == 0) {
            hapus(kodeSubKriteria);
            showTable(tabel, tabelModel);
        } else {
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Pilih Data Yang Akan Dihapus Dulu",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
    }
}

private void btnbatalActionPerformed(java.awt.event.ActionEvent evt) {
    kosong();
}

private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = false;
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = true;
    ubah();
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    kodeSubKriteria = getInt(txtkodesubkrit);
    namaSubKriteria = txtnamasubkrit.getText();
    NilaiProfil = getInt(txtnilaiprofil);
    int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
    int kodeFactor = this.kodeFaktor[cmbfaktor.getSelectedIndex()];
    if (validasi(txtnamasubkrit, txtnilaiprofil)) {
        simpan(kodeSubKriteria, namaSubKriteria, NilaiProfil, kodeKriteria, kodeFactor,
ubah);
        btnsimpan.setEnabled(false);
        btnbatal.setEnabled(false);
        batal(false);
        showTable(tabel, tabelModel);
    }
}

public static void main(String args[]) {
    try {

```

```

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(SubKriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(SubKriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(SubKriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(SubKriteria.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {
            new SubKriteria().setVisible(true);
        }
    });
}
private javax.swing.JButton btnbatal;
private javax.swing.JButton btnhapus;
private javax.swing.JButton btnsimpan;
private javax.swing.JButton btntambah;
private javax.swing.JButton btnubah;
private javax.swing.JComboBox cmbfaktor;
private javax.swing.JComboBox cmbkriteria;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;

```

```

private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
private javax.swing.JTextField txtkodesubkrit;
private javax.swing.JTextField txtnamasubkrit;
private javax.swing.JTextField txtnilaiprofil;
}

```

Penduduk.java

```

package skripsi;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class Penduduk extends javax.swing.JFrame {

    private int Id;
    private String noKk;
    private String namaKk;
    private int RT;
    private int RW;
    private boolean ubah;
    private DefaultTableModel tabelModel;

    public Penduduk() {
        initComponents();
        showTable(tabel, tabelModel);
    }

    private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
        Database database = new Database();
        try {
            Object[][] data = database.getPenduduk();
            Object[] dataTable = new Object[data[0].length+1];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"ID Penduduk", "Nomor KK", "Nama KK", "RT", "RW"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);

            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(false);
            }

            tabelModel.setRowCount(0);

```



```

        for (int i = 0; i < data.length; i++) {
            dataTable[0] = data[i][0];
            dataTable[1] = data[i][1];
            dataTable[2] = data[i][2];
            dataTable[3] = data[i][3];
            dataTable[4] = data[i][4];
            tabelModel.addRow(dataTable);
        }
        return true;
    } catch (Exception e) {
        return false;
    }
}

private int getID(JTextField textPenduduk){
    int hasil = 0;
    try {
        hasil = Integer.parseInt(textPenduduk.getText());
    } catch (NumberFormatException numberFormatException) {
    }
    return hasil;
}

private void ubah(){
    if(tabel.getSelectedRow() < 0){
        JOptionPane.showMessageDialog(null, "Pilih Data Yang akan diedit",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
    }else{
        int baris = tabel.getSelectedRow();
        Id = (Integer) tabel.getValueAt(baris, 0);
        noKk = (String) tabel.getValueAt(baris, 1);
        namaKk = (String) tabel.getValueAt(baris, 2);
        RT= (Integer) tabel.getValueAt(baris, 3);
        RW = (Integer) tabel.getValueAt(baris, 4);
        txtid.setText(""+Id);
        txtnokk.setText(noKk);
        txtnamakk.setText(namaKk);
        txtrt.setText(""+RT);
        txtrw.setText(""+RW);
    } }

private void batal(boolean b){
    txtnokk.setEnabled(b);
    txtnamakk.setEnabled(b);
    txtrt.setEnabled(b);
    txtrw.setEnabled(b);
}

private void kosong(){
    txtid.setText("");

```

```

        txtnokk.setText("");
        txtnamakk.setText("");
        txttrt.setText("");
        txtrw.setText("");
    }
    private void hapus(int IdPenduduk){
        Database database = new Database();
        if (database.deletePenduduk(IdPenduduk)){
            JOptionPane.showMessageDialog(null, "Berhasil Menghapus Data Penduduk",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(null, "Gagal Menghapus Data Penduduk",
"Peringatan", JOptionPane.WARNING_MESSAGE);
        }
    }

    private void simpan(int Id, String noKk, String namaKk, int RT, int RW, boolean ubah){
        Database database = new Database();
        Object[] data = {Id,noKk,namaKk,RT,RW};
        if (!ubah){
            if (database.insertPenduduk(data)){
                JOptionPane.showMessageDialog(null, "Berhasil Menginput Data Penduduk",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(null, "Gagal Menginput Data Penduduk",
"Peringatan", JOptionPane.WARNING_MESSAGE);
            }
        } else {
            if (database.updatePenduduk(data)){
                JOptionPane.showMessageDialog(null, "Berhasil Mengupdate Data Penduduk",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(null, "Gagal Mengupdate Data Penduduk",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
            }
        }
    }
    private boolean validasi(JTextField txtnokk, JTextField txtnamakk, JTextField txttrt,JTextField
txtrw){
        if (txtnokk.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Nama Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
            return false;
        } else if (txtnamakk.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Alamat Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
            return false;
        } else {
            try {

```

```

        Float.parseFloat(txttrt.getText());
        Float.parseFloat(txttrw.getText());
        return true;
    } catch (NumberFormatException numberFormatException) {
        numberFormatException.printStackTrace();
        JOptionPane.showMessageDialog(null, "Nomer RT dan RW Harus Berupa Angka!",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
        return false;
    } } }

private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {
try {
    int baris = tabel.getSelectedRow();
    Id = (Integer) tabel.getValueAt(baris, 0);
    int jawab = JOptionPane.showOptionDialog(null, "Anda Yakin Akan Menghapus data
ini?", "Pertanyaan", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,
null, new String[]{"Ya", "Tidak"}, null);
    if (jawab == 0) {
        hapus(Id);
        showTable(tabel, tabelModel);
    } else {
    }
} catch (Exception e) {
    JOptionPane.showMessageDialog(null, "Pilih Data Yang Akan Dihapus Dulu",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
}
}

private void btnbatalActionPerformed(java.awt.event.ActionEvent evt) {
kosong();
}

private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = false;
    batal(false);
    batal(true);
    kosong();
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = true;
    ubah();
    batal(true);
    btnsimpan.setEnabled(true);
    btnbatal.setEnabled(true);
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    Id = getID(txtid);

```

```

        noKk = txtnokk.getText();
        namaKk = txtnamakk.getText();
        RT = getID(txtrt);
        RW = getID(txtrw);
        if (validasi(txtnokk, txtnamakk, txtrt,txtrw)) {
            simpan(Id, noKk, namaKk, RT, RW,ubah);
            btnsimpan.setEnabled(false);
            kosong();
            btnbatal.setEnabled(false);
            batal(false);
            showTable(tabel, tabelModel);
        }
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Penduduk.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Penduduk.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Penduduk.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Penduduk.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new Penduduk().setVisible(true);
            }
        });
    }

    private javax.swing.JButton btnbatal;
    private javax.swing.JButton btnhapus;
    private javax.swing.JButton btnsimpan;
    private javax.swing.JButton btntambah;
    private javax.swing.JButton btnubah;
    private javax.swing.JLabel jLabel1;

```

```

private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
private javax.swing.JTextField txtid;
private javax.swing.JTextField txtnamakk;
private javax.swing.JTextField txtnokk;
private javax.swing.JTextField txtrt;
private javax.swing.JTextField txtrw;
}

```

Nilai.java

```

package skripsi;
import javax.swing.JComboBox;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class Nilai extends javax.swing.JFrame {

    private int kodeNilai[];
    public static int idPenduduk[];
    public static int kodeKriteria[];
    private int kodeSubKriteria[];
    private String noKk;
    private String namaKk;
    private int RT;
    private int RW;
    private boolean ubah;
    private DefaultTableModel tabelModel;

    public Nilai() {
        initComponents();
        idPenduduk = createComboPenduduk(cmbid);
        kodeKriteria = createComboKriteria(cmbkriteria);
        try {
            int id = idPenduduk[cmbid.getSelectedIndex()];

```

```

        showData(id,txtnokk,txtnamakk,txtrt,txtrw);
    } catch (Exception e) {
    }
    try {
        int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
        kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
    } catch (Exception e) {
    }
    try {
        boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);
        ubah = !setTabelNilai;
    } catch (Exception e) {
    }
}

public static int[] createComboPenduduk(JComboBox cmbid){
    int[] hasil = null;
    Database database = new Database();
    try {
        Object[][] data = database.getPenduduka();
        hasil = new int[data.length];
        cmbid.removeAllItems();
        for (int i = 0; i < data.length; i++) {
            hasil[i] = (Integer) data[i][0];
            cmbid.addItem(data[i][1] + " || " + data[i][2]);
        }
    } catch (Exception e) {
    }
    return hasil;
}

public static int[] createComboKriteria(JComboBox cmbkriteria){
    int[] hasil = null;
    Database database = new Database();
    try {
        Object[][] data = database.getKriteria();
        hasil = new int[data.length];
        cmbkriteria.removeAllItems();
        for (int i = 0; i < data.length; i++) {
            hasil[i] = (Integer) data[i][0];
            cmbkriteria.addItem(data[i][1]);
        }
    } catch (Exception e) {
    }
    return hasil;
}

private int[] showTable(JTable tabel, DefaultTableModel tabelModel, int kodeKriteria){
    Database database = new Database();
    int[] hasil = null;

```

```

try {
    Object[][] data = database.getSubKriteria(kodeKriteria);
    Object[] dataTable = new String[data[0].length+1];
    hasil = new int[data.length];
    Table createTable = new Table();
    tabelModel = createTable.getDefaultTableModel(
        new String[]{" Nama Sub Kriteria", "Nilai"}, new boolean[]{false, true});
    tabel.setModel(tabelModel);
    tabel.getTableHeader().setResizingAllowed(false);
    tabel.getTableHeader().setReorderingAllowed(false);
    for (int i = 0; i < tabel.getColumnCount(); i++) {
        tabel.getColumnModel().getColumn(i).setResizable(false);
    }

    tabelModel.setRowCount(0);
    for (int i = 0; i < data.length; i++) {
        hasil[i] = (Integer) data[i][0];
        dataTable[0] = data[i][1];
        dataTable[1] = "";
        tabelModel.addRow(dataTable);
    }
} catch (Exception e) {
}
return hasil;
}

```

```

private void showData(int id, JTextField txtnokk, JTextField txtnamakk, JTextField
txtrt, JTextField txtrw){

```

```

    Database database = new Database();
    try {
        Object[][] data = database.getPenduduk(id);
        txtnokk.setText(""+data[0][1]);
        txtnamakk.setText(""+data[0][2]);
        txtrt.setText(""+data[0][3]);
        txtrw.setText(""+data[0][4]);

```

```

    } catch (Exception e) {
    }
}

```

```

private boolean setTabelNilai(JComboBox cmbid, JComboBox cmbkriteria, JTable tabel){
    boolean hasil = false;
    Database database = new Database();
    String nokk = cmbid.getSelectedItem().toString();
    String namaKriteria = cmbkriteria.getSelectedItem().toString();
    kodeNilai = new int[tabel.getRowCount()];
    for (int i = 0; i < tabel.getRowCount(); i++) {
        String namaSubKriteria = (String) tabel.getValueAt(i, 0);

```

```

        int nilai[] = database.getNilai(namaKriteria, namaSubKriteria, nokk);
        tabel.setValueAt(nilai[3], i, 1);
        kodeNilai[i] = nilai[0];
        if (nilai[0] > 0) {
            hasil = true;
        } else {
        }
    }
    return hasil;
}

private boolean simpan(int kodeNilai, int nilai, int kodeSubKriteria, int idPenduduk,
boolean ubah){
    Database database = new Database();
    Object[] data = {kodeNilai, idPenduduk, kodeSubKriteria, nilai };
    if (database.insertNilai(data)) {
        //JOptionPane.showMessageDialog(null, "Berhasil Menambah Data Nilai!",
"Informasi!", JOptionPane.INFORMATION_MESSAGE);
        return true;
    } else {
        return false;
    }
}

private void cmbidItemStateChanged(java.awt.event.ItemEvent evt) {
    try {
        int id = idPenduduk[cmbid.getSelectedIndex()];
        showData(id, txtnokk, txtnamakk, txtrt, txtrw);
    } catch (Exception e) {
    }
    try {
        int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
        kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
    } catch (Exception e) {
    }
    try {
        boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);
        ubah = !setTabelNilai;
    } catch (Exception e) {
    }
}

private void cmbkriteriaItemStateChanged(java.awt.event.ItemEvent evt) {
    try {
        int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
        kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
    } catch (Exception e) {
    }
    try {
        boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);

```



```

        ubah = !setTabelNilai;
    } catch (Exception e) {
    }
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
try {
    boolean stopCellEditing = tabel.getCellEditor().stopCellEditing();
    } catch (Exception e) {
    }
    int nilai = 0;
    int kodeSubKriteria = 0;
    int idKriteria = kodeKriteria[cmbkriteria.getSelectedIndex()];
    int idPenduduk = this.idPenduduk[cmbid.getSelectedIndex()];
    Database database = new Database();
    database.deleteNilai(idKriteria, idPenduduk);
    int[][] data = new int[tabel.getRowCount()][4];
    int benar = 0;
    for (int i = 0; i < tabel.getRowCount(); i++) {
        System.out.println(i);
        nilai = Integer.parseInt(tabel.getValueAt(i, 1).toString());
        kodeSubKriteria = this.kodeSubKriteria[i];
        if (simpan(kodeNilai[i], nilai, kodeSubKriteria, idPenduduk, ubah)) {
            benar++;
        }
    }
    if (tabel.getRowCount() == benar){
        JOptionPane.showMessageDialog(null, "Nilai Berhasil Dimasukkan!", "Informasi",
JOptionPane.INFORMATION_MESSAGE);
    }
}

private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
new NilaiEdit().setVisible(true);
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    }
}

```

```

        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new Nilai().setVisible(true);
            }
        });
    }
    private javax.swing.JButton btnbatal;
    private javax.swing.JButton btnsimpan;
    private javax.swing.JButton btnubah;
    private javax.swing.JComboBox cmbid;
    private javax.swing.JComboBox cmbkriteria;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tabel;
    private javax.swing.JTextField txtnamakk;
    private javax.swing.JTextField txtnokk;
    private javax.swing.JTextField txttrt;
    private javax.swing.JTextField txttrw;
}

```

nilaiEdit.java

```

package skripsi;
import javax.swing.JComboBox;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

```

```

public class NilaiEdit extends javax.swing.JFrame {
    private int kodeNilai[];
    public static int idPenduduk[];
    public static int kodeKriteria[];
    private int kodeSubKriteria[];
    private String noKk;
    private String namaKk;
    private int RT;
    private int RW;
    private boolean ubah;
    private DefaultTableModel tabelModel;

    public NilaiEdit() {
        initComponents();
        idPenduduk = createComboPenduduk(cmbid,ubah);
        kodeKriteria = createComboKriteria(cmbkriteria);
        try {
            int id = idPenduduk[cmbid.getSelectedIndex()];
            showData(id,txtnokk,txtnamakk,txtrt,txtrw);
        } catch (Exception e) {
        }
        try {
            int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
            kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
        } catch (Exception e) {
        }
        try {
            boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);
            ubah = !setTabelNilai;
        } catch (Exception e) {
        }
    }

    public static int[] createComboPenduduk(JComboBox cmbid,boolean ubah){
        int[] hasil = null;
        Database database = new Database();
        try {
            Object[][] data = database.getPendudukb();
            hasil = new int[data.length];
            cmbid.removeAllItems();
            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                cmbid.addItem(data[i][1] + "-" + data[i][2]) ;
            }

        } catch (Exception e) {
        }
    }
}

```

```

        return hasil;
    }
    public static int[] createComboKriteria(JComboBox cmbkriteria){
        int[] hasil = null;
        Database database = new Database();
        try {
            Object[][] data = database.getKriteria();
            hasil = new int[data.length];
            cmbkriteria.removeAllItems();
            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                cmbkriteria.addItem(data[i][1]);
            }
        } catch (Exception e) {
        }
        return hasil;
    }
    private int[] showTable(JTable tabel, DefaultTableModel tabelModel, int kodeKriteria){
        Database database = new Database();
        int[] hasil = null;
        try {
            Object[][] data = database.getSubKriteria(kodeKriteria);
            Object[] dataTable = new String[data[0].length+1];
            hasil = new int[data.length];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{" Nama Sub Kriteria", "Nilai"}, new boolean[]{false, true});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);
            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(false);
            }
            tabelModel.setRowCount(0);
            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                dataTable[0] = data[i][1];
                dataTable[1] = "";
                tabelModel.addRow(dataTable);
            }
        } catch (Exception e) {
        }
        return hasil;
    }
    private void showData(int id, JTextField txtnokk,JTextField txtnamakk,JTextField
    txtrt,JTextField txtrw){
        Database database = new Database();

```

```

try {
    Object[][] data = database.getPenduduk(id);
    txtnokk.setText(""+data[0][1]);
    txtnamakk.setText(""+data[0][2]);
    txtrt.setText(""+data[0][3]);
    txtrw.setText(""+data[0][4]);

    } catch (Exception e) {
    } }

private boolean setTabelNilai(JComboBox cmbid, JComboBox cmbkriteria, JTable tabel){
    boolean hasil = false;
    Database database = new Database();
    int nokk = this.idPenduduk[cmbid.getSelectedIndex()];
    String namaKriteria = cmbkriteria.getSelectedItem().toString();
    kodeNilai = new int[tabel.getRowCount()];
    for (int i = 0; i < tabel.getRowCount(); i++) {
        String namaSubKriteria = (String) tabel.getValueAt(i, 0);
        int nilai[] = database.getNilaiN(namaKriteria, namaSubKriteria, nokk);
        tabel.setValueAt(nilai[3], i, 1);
        kodeNilai[i] = nilai[0];
        if (nilai[0] > 0) {
            hasil = true;
        } else {
        } }

    return hasil;
}

private boolean simpan(int kodeNilai, int nilai, int kodeSubKriteria, int idPenduduk,
boolean ubah){
    Database database = new Database();
    Object[] data = {kodeNilai, idPenduduk, kodeSubKriteria, nilai };
    if (database.insertNilai(data)) {
        JOptionPane.showMessageDialog(null, "Berhasil Update Data Nilai!", "Informasi!",
JOptionPane.INFORMATION_MESSAGE);
        return true;
    } else {
        return false;
    }
}

private void batal(JTable tabel){
}

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
try {
    boolean stopCellEditing = tabel.getCellEditor().stopCellEditing();
    } catch (Exception e) {

```

```

    }
    int nilai = 0;
    int kodeSubKriteria = 0;
    int idKriteria = kodeKriteria[cmbkriteria.getSelectedIndex()];
    int idPenduduk = this.idPenduduk[cmbid.getSelectedIndex()];
    Database database = new Database();
    database.deleteNilai(idKriteria, idPenduduk);
    int[][] data = new int[tabel.getRowCount()][4];
    int benar = 0;
    for (int i = 0; i < tabel.getRowCount(); i++) {
        System.out.println(i);
        nilai = Integer.parseInt(tabel.getValueAt(i, 1).toString());
        kodeSubKriteria = this.kodeSubKriteria[i];
        if (simpan(kodeNilai[i], nilai, kodeSubKriteria, idPenduduk, ubah)) {
            benar++;
        }
    }
    if (tabel.getRowCount() == benar){
        JOptionPane.showMessageDialog(null, "Nilai Berhasil Dimasukkan!", "Informasi",
JOptionPane.INFORMATION_MESSAGE);
    }
}

private void cmbidItemStateChanged(java.awt.event.ItemEvent evt) {
    try {
        int id = idPenduduk[cmbid.getSelectedIndex()];
        showData(id, txtnokk, txtnamakk, txtrt, txtrw);
    } catch (Exception e) {
    }
    try {
        int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
        kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
    } catch (Exception e) {
    }
    try {
        boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);
        ubah = !setTabelNilai;
    } catch (Exception e) {
    }
}

private void cmbkriteriaItemStateChanged(java.awt.event.ItemEvent evt) {
    try {
        int kodeKriteria = this.kodeKriteria[cmbkriteria.getSelectedIndex()];
        kodeSubKriteria = showTable(tabel, tabelModel, kodeKriteria);
    } catch (Exception e) {
    }
    try {
        boolean setTabelNilai = setTabelNilai(cmbid, cmbkriteria, tabel);

```

```

        ubah = !setTabelNilai;
    } catch (Exception e) {
    }
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(NilaiEdit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(NilaiEdit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(NilaiEdit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(NilaiEdit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {
            new NilaiEdit().setVisible(true);
        }
    });
}

private javax.swing.JButton btnbatal;
private javax.swing.JButton btnsimpan;
private javax.swing.JComboBox cmbid;
private javax.swing.JComboBox cmbkriteria;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;

```

```

private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
private javax.swing.JTextField txtnamakk;
private javax.swing.JTextField txtnokk;
private javax.swing.JTextField txttrt;
private javax.swing.JTextField txtrw;
}

```

Perhitungan.java

```

package skripsi;
import java.text.DecimalFormat;
import javax.swing.JComboBox;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
public class Perhitungan extends javax.swing.JFrame {
    private static int kodePenduduk;
    private static double[] kriteria;
    private static double nilaiTotal;
    private static String header[];
    private static Object data[];
    private DefaultTableModel tabelModel;
    protected static int[] idPenduduk;
    DecimalFormat decimalFormat;

    public Perhitungan() {
        initComponents();
        decimalFormat = new DecimalFormat("#.###");
        idPenduduk = createComboPenduduk(cmbnamakk);
    }
    protected static int[] createComboPenduduk(JComboBox cmbnamakk){
        int[] hasil = null;
        Database database = new Database();
        try {
            Object[][] data = database.getPendudukb();
            hasil = new int[data.length];
            cmbnamakk.removeAllItems();

            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                cmbnamakk.addItem(data[i][1]+"-"+data[i][2] );
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```



```

        return hasil;
    }
    private int[][] getNilai(int kodePenduduk){
        Database database = new Database();
        Object[][] nilai = database.getNilaiPenduduk(kodePenduduk);
        int[][] hasil = new int[nilai.length][3];
        int indeks = 0;
        System.out.println("kode_nilai | nilai | kode_sub | id | nilai_profil | kode_faktor |
kode_kriteria ");
        for (int i = 0; i < nilai.length; i++) {
            for (int j = 0; j < nilai[i].length; j++) {
                System.out.print(nilai[i][j]+" \t");
                hasil[indeks][0] = (Integer) nilai[i][1];
                hasil[indeks][1] = (Integer) nilai[i][4];
                hasil[indeks][2] = hasil[indeks][0] - hasil[indeks][1];
            }
            indeks++;
            System.out.println("");
        }
        System.out.println("-----");
        return hasil;
    }
    private double[] getFaktor(int kodePenduduk){
        Database database = new Database();
        Object[][] kriteria = database.getKriteria();
        Object[][] faktor = database.getFaktor();
        double totalFaktor[][] = new double[kriteria.length+1][faktor.length];
        double totalKriteria[] = new double[kriteria.length+1];
        int bil = 0;
        System.out.println("-----");
        for (int i = 0; i < kriteria.length; i++) {
            for (int j = 0; j < faktor.length; j++) {
                int kodeKriteria = (Integer) kriteria[i][0];
                int kodeFaktor = (Integer) faktor[j][0];
                Object[][] hasil = database.getNilaiByVar(kodeKriteria, kodePenduduk,
kodeFaktor);
                double b = 0;
                int pjg = 0;
                for (int k = 0; k < hasil.length; k++) {
                    double a = ((Integer)hasil[k][6] - (Integer) hasil[k][8]);
                    double bobot = 5;
                    System.out.println("GAP : "+a);
                    if ( a == -1) {
                        a= bobot + a + 0.5;
                    }
                    else if (a == -2){
                        a= bobot + a + 1;
                    }
                }
            }
        }
    }

```

```

    }
    else if ( a == 1){
        a= bobot -a - 0.5;
    }
    else if ( a == 2){
        a= bobot - a;
    }
    else if (a > 2){
        a = bobot - a ;
    }
    else if (a < -2){
        a = bobot - a +0.5;
    }
    else {
        a = bobot;
    }

    System.out.println("Bobot Nilai "+a);
    if ((Integer)hasil[k][4] == 1){ // jika (hasil[k][4]) kode_faktor = 1 maka bobot (b)
= bobot + a
        b = (b + a);
    } else {
        b = (b+a);
    }
    System.out.println(+k+" | penduduk "+hasil[k][5]+": "+a+" "+b); // hasil[k][5] -->
nama penduduk
    pjg++;
    System.out.println("");
}
b = b/pjg;
System.out.println("Nilai rata-rata faktor : "+b);
totalFaktor[i][j] = b;
bil++;
System.out.println("");
}

}
System.out.println("-----");
System.out.println("Penghitungan nilai total");
System.out.println("(40% untuk sub kriteria secondary faktor) & (60% untuk sub
kriteria core faktor)");
System.out.println("");
for (int i = 0; i < kriteria.length; i++) {
    System.out.println("== Nilai Total Tiap Kriteria==");
    for (int j = 0; j < faktor.length; j++) {
        totalKriteria[i] = totalKriteria[i] + (totalFaktor[i][j] * ((Integer)faktor[j][2]/100.0));

```

```

        System.out.println(totalKriteria[i]+" = (rata-rata factor) "+totalFaktor[i][j]+" *
"+(Integer)faktor[j][2]+"/"+100);
    }
    System.out.println("");
    totalKriteria[kriteria.length] = totalKriteria[kriteria.length] + (totalKriteria[i] *
(Integer)kriteria[i][2]/100.0);
}
return totalKriteria;
}

private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
    Database database = new Database();
    int kodePenduduk = idPenduduk[cmbnamakk.getSelectedIndex()];
    try {
        Object[][] data = database.getNilaiPenduduk(kodePenduduk);
        Object[] dataTable = new Object[data[0].length+1];
        Table createTable = new Table();
        tabelModel = createTable.getDefaultTableModel(
new String[]{" Nama Sub Kriteria ", "Nilai Penduduk", "Nilai Profil", "Gap"});
        tabel.setModel(tabelModel);
        tabel.getTableHeader().setResizingAllowed(false);
        tabel.getTableHeader().setReorderingAllowed(false);
        int[][] hasil = new int[data.length][3];
        int indeks = 0;
        for (int i = 0; i < tabel.getColumnCount(); i++) {
            tabel.getColumnModel().getColumn(i).setResizable(false);
        }

        tabelModel.setRowCount(0);
        for (int i = 0; i < data.length; i++) {
            hasil[indeks][0] = (Integer) data[i][1];
            hasil[indeks][1] = (Integer) data[i][4];
            hasil[indeks][2] = hasil[indeks][0] - hasil[indeks][1];
            dataTable[0] = data[i][7];
            dataTable[1] = hasil[indeks][0];
            dataTable[2] = hasil[indeks][1];
            dataTable[3] = hasil[indeks][2];
            tabelModel.addRow(dataTable);
        }
        return true;
    } catch (Exception e) {
        return false;
    }
}

private void btnhitungActionPerformed(java.awt.event.ActionEvent evt) {
    showTable(tabel,tabelModel);
    int kodePenduduk = idPenduduk[cmbnamakk.getSelectedIndex()];
    double[] coba = getFaktor(kodePenduduk);

```

```

        for (int i = 0; i < coba.length; i++) {
            System.out.println(i+": "+coba[i]);
            tabelNilai.setValueAt(decimalFormat.format(coba[i]), 0, i+1);
        }
        tabelNilai.setValueAt(cmbnamakk.getSelectedItem().toString(), 0, 0);
    }

    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Perhitungan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Perhitungan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Perhitungan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Perhitungan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new Perhitungan().setVisible(true);
            }
        });
    }

    private javax.swing.JButton btnhitung;
    private javax.swing.JComboBox cmbnamakk;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;

```

```

private javax.swing.JTable tabel;
private javax.swing.JTable tabelNilai;
}

```

User.java

```

package skripsi;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class User extends javax.swing.JFrame {
    private boolean ubah;
    private int idUser;
    private String username;
    private String password;
    private String posisi;
    private DefaultTableModel tabelModel;

    public User() {
        initComponents();
        showTable(tabel, tabelModel);
    }
    private void batal(boolean b){
        txtuser.setEnabled(b);
        txtpass.setEnabled(b);
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
        Database database = new Database();
        try {
            Object[][] data = database.getUser();
            Object[] dataTable = new Object[data[0].length+1];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"Kode User", "Username", "Password", "Posisi"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);
            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(false);
            }
            tabelModel.setRowCount(0);
            for (int i = 0; i < data.length; i++) {
                dataTable[0] = data[i][0];
                dataTable[1] = data[i][1];
                dataTable[2] = data[i][2];
                dataTable[3] = data[i][3];
            }
        }
    }
}

```

```

        tabelModel.addRow(dataTable);
    }
    return true;
} catch (Exception e) {
    return false;
} }

private int getIDUser(JTextField textID){
    int hasil = 0;
    try {
        hasil = Integer.parseInt(textID.getText());
    } catch (NumberFormatException numberFormatException) {
    }
    return hasil;
}

private boolean validasi(JTextField txtuser, JTextField txtpass){
    if (txtuser.getText().equals("")){
        JOptionPane.showMessageDialog(null, "Username Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
        return false;
    } else if (txtpass.getText().equals("")){
        JOptionPane.showMessageDialog(null, "Password Harus Diisi!", "Peringatan!",
JOptionPane.WARNING_MESSAGE);
        return false;
    } else {
        return true;
    } }

private void ubah(){
    if(tabel.getSelectedRow() >= 0){
        int baris = tabel.getSelectedRow();
        idUser = (Integer) tabel.getValueAt(baris, 0);
        username = (String) tabel.getValueAt(baris, 1);
        password = (String) tabel.getValueAt(baris, 2);
        posisi = (String) tabel.getValueAt(baris, 3);
        txtid.setText(""+idUser);
        txtuser.setText(username);
        txtpass.setText(password);
        txtposisi.setText(posisi);

    }
    else{
        JOptionPane.showMessageDialog(null, "Pilih Data Yang akan diedit", "Pemberitahuan",
JOptionPane.INFORMATION_MESSAGE);
    } }

private void hapus(int idUser){
    Database database = new Database();
    if (database.deleteUser(idUser)){

```

```

        JOptionPane.showMessageDialog(null, "Berhasil Menghapus Data User",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
    } else {
        JOptionPane.showMessageDialog(null, "Gagal Menghapus Data User", "Peringatan",
JOptionPane.WARNING_MESSAGE);
    }
}

public void kosong()
{
    txtuser.setText("");
    txtpass.setText("");
    txtposisi.setText("");
    txtid.setText("");
}

private void simpan(int idUser, String username, String password, boolean ubah){
    Database database = new Database();
    Object[] data = {idUser, username, password};
    if (!ubah){
        if (database.insertUser(data)){
            JOptionPane.showMessageDialog(null, "Berhasil Menginput Data User",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(null, "Gagal Menginput Data User", "Peringatan",
JOptionPane.WARNING_MESSAGE);
        }
    } else {
        if (database.updateUser(data)){
            JOptionPane.showMessageDialog(null, "Berhasil Mengupdate Data User",
"Pemberitahuan", JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(null, "Gagal Mengupdate Data User",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
        }
    }
}

private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {
try {
    int baris = tabel.getSelectedRow();
    idUser = (Integer) tabel.getValueAt(baris, 0);
    int jawab = JOptionPane.showOptionDialog(null, "Anda Yakin Akan Menghapus data
ini?", "Pertanyaan", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,
null,new String[]{"Ya", "Tidak"},null);
    if (jawab == 0) {
        hapus(idUser);
        showTable(tabel, tabelModel);
    } else {
    }
} catch (Exception e) {

```

```

        JOptionPane.showMessageDialog(null, "Pilih Data Yang Akan Dihapus Dulu",
"Peringatan!", JOptionPane.WARNING_MESSAGE);
    }
}
private void btnresetActionPerformed(java.awt.event.ActionEvent evt) {
    kosong();
    batal(false);
    btnsimpan.setEnabled(false);
    btnreset.setEnabled(false);
}
private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = false;
    batal(true);
    btnsimpan.setEnabled(true);
    btnreset.setEnabled(true);
}
private void btnubahActionPerformed(java.awt.event.ActionEvent evt) {
    ubah = true;
    ubah();
    batal(false);
    batal(true);
    btnsimpan.setEnabled(true);
    btnreset.setEnabled(true);
}
private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    idUser = getIDUser(txtid);
    username = txtuser.getText();
    password = txtpass.getText();
    if (validasi(txtuser, txtpass)) {
        simpan(idUser, username, password, ubah);
        btnsimpan.setEnabled(false);
        btnreset.setEnabled(false);
        batal(false);
        kosong();
        showTable(tabel, tabelModel);
    }
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```



```

        } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }

```

```

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {
                new User().setVisible(true);
            }
        });
    }
    private javax.swing.JButton btnhapus;
    private javax.swing.JButton btnreset;
    private javax.swing.JButton btnsimpan;
    private javax.swing.JButton btntambah;
    private javax.swing.JButton btntambah;
    private javax.swing.JButton btntambah;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tabel;
    private javax.swing.JTextField txtid;
    private javax.swing.JTextField txtpass;
    private javax.swing.JTextField txtposisi;
    private javax.swing.JTextField txtuser;
}

```

LaporanHasil.java

```
package skripsi;
import java.sql.Connection;
import java.sql.SQLException;
import java.text.DecimalFormat;
import java.util.Calendar;
import java.util.HashMap;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JComboBox;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.view.JasperViewer;
public class LaporanHasil extends javax.swing.JFrame {
    private DefaultTableModel tabelModel;
    private Object[][] data = null;
    public LaporanHasil() {
        initComponents();
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel, Object[][] data){
        if (data == null){
            JOptionPane.showMessageDialog(null, "Data Tidak Ditemukan!", "Informasi",
JOptionPane.WARNING_MESSAGE);
        }
        DecimalFormat decimalFormat = new DecimalFormat("#.###");
        try {
            Object[] dataTable = new Object[8];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"nomor", "Nomor KK", "Nama KK", "RT", "RW", "Nilai",
"Periode", "Status"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(false);
            tabel.getTableHeader().setReorderingAllowed(false);

            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(true);
            }
            tabelModel.setRowCount(0);
```

```

        for (int i = 0; i < data.length; i++) {
            dataTable[0] = i+1;
            dataTable[1] = data[i][1];
            dataTable[2] = data[i][2];
            dataTable[3] = data[i][3];
            dataTable[4] = data[i][4];
            dataTable[5] = DecimalFormat.format(data[i][5]);
            dataTable[6] = data[i][6];
            dataTable[7] = data[i][7];
            tabelModel.addRow(dataTable);
        }
        return true;
    } catch (Exception e) {
        return false;
    } }

private int[][] getNilai(int kodePenduduk){
    Database database = new Database();
    Object[][] nilai = database.getNilaiPenduduk(kodePenduduk);
    int[][] hasil = new int[nilai.length][3];
    int indeks = 0;
    for (int i = 0; i < nilai.length; i++) {
        for (int j = 0; j < nilai[i].length; j++) {
            hasil[indeks][0] = (Integer) nilai[i][1];
            hasil[indeks][1] = (Integer) nilai[i][4];
            hasil[indeks][2] = hasil[indeks][0] - hasil[indeks][1];
        }
        indeks++;
    }
    return hasil;
}

private double[] getFaktor(int kodePenduduk){
    Database database = new Database();
    Object[][] kriteria = database.getKriteria();
    Object[][] faktor = database.getFaktor();
    double totalFaktor[][] = new double[kriteria.length+1][faktor.length];
    double totalKriteria[] = new double[kriteria.length+1];
    int bil = 0;
    for (int i = 0; i < kriteria.length; i++) {
        for (int j = 0; j < faktor.length; j++) {
            int kodeKriteria = (Integer) kriteria[i][0];
            int kodeFaktor = (Integer) faktor[j][0];
            Object[][] hasil = database.getNilaiByVar(kodeKriteria, kodePenduduk, kodeFaktor);
            double b = 0;
            int pjg = 0;
            for (int k = 0; k < hasil.length; k++) {
                double a = ((Integer)hasil[k][6] - (Integer) hasil[k][8]);
            }
        }
    }
}

```

```

        double bobot = 5;
        if ( a == -1) {
            a= bobot + a + 0.5;
        }
        else if (a == -2){
            a= bobot + a + 1;
        }
        else if ( a == 1){
            a= bobot -a - 0.5;
        }
        else if ( a == 2){
            a= bobot - a;
        }
        else if (a > 2){
            a = bobot - a ;
        }
        else if (a < -2){
            a = bobot - a +0.5;
        }
        else {
            a = bobot;
        }
        if ((Integer)hasil[k][4] == 1){
            b = (b + a);
        } else {
            b = (b+a);
        }
        pjg++;
    }
    b = b/pjg;
    totalFaktor[i][j] = b;
    bil++;
}
}
for (int i = 0; i < kriteria.length; i++) {
    for (int j = 0; j < faktor.length; j++) {
        totalKriteria[i] = totalKriteria[i] + (totalFaktor[i][j] * ((Integer)faktor[j][2]/100.0));
    }
    totalKriteria[kriteria.length] = totalKriteria[kriteria.length] + (totalKriteria[i] *
(Integer)kriteria[i][2]/100.0);
}
return totalKriteria;
}

private Object[][] sortData(Object[][] penduduk) {
for (int i = 0; i < penduduk.length; i++) {
    for (int j = 0; j < penduduk.length-1; j++) {
        double nilaiPembanding = (Double) penduduk[j+1][5];

```

```

        double nilaiAwal = (Double) penduduk[j][5];
        if (nilaiAwal < nilaiPembanding){
            penduduk[j][5] = nilaiPembanding;
            penduduk[j+1][5] = nilaiAwal;
            String kode = (String) penduduk[j][1];
            penduduk[j][1] = penduduk[j+1][1];
            penduduk[j+1][1] = kode;
            String nama = (String) penduduk[j][2];
            penduduk[j][2] = penduduk[j+1][2];
            penduduk[j+1][2] = nama;
            int rt = (Integer)penduduk[j][3];
            penduduk[j][3] = penduduk[j+1][3];
            penduduk[j+1][3] = rt;
            int rw = (Integer) penduduk[j][4];
            penduduk[j][4] = penduduk[j+1][4];
            penduduk[j+1][4] = rw;

        }
    }
    return penduduk;
}

private Object[][] getDataPenduduk() {
    Database database = new Database();
    Object[][] penduduk = database.getPendudukc();
    Object[][] hasil = new Object[penduduk.length][8];
    int jum = Integer.parseInt(txtjum.getText());
    if (penduduk.length <= jum){
        for (int i = 0; i < penduduk.length; i++) {
            int kodePenduduk = (Integer) penduduk[i][0];
            int[][] nilai = getNilai(kodePenduduk);
            double[] coba = getFaktor(kodePenduduk);
            String status = "Diterima";
            hasil[i][0] = i+1;
            hasil[i][1] = penduduk[i][1];
            hasil[i][2] = penduduk[i][2];
            hasil[i][3] = penduduk[i][3];
            hasil[i][4] = penduduk[i][4];
            hasil[i][5] = coba[coba.length-1]*1.0;
            hasil[i][6] = penduduk[i][5];
            hasil[i][7] = status;
        }
    }
    else if (penduduk.length > jum){
        for (int i = 0; i < jum; i++) {
            int kodePenduduk = (Integer) penduduk[i][0];
            int[][] nilai = getNilai(kodePenduduk);
            double[] coba = getFaktor(kodePenduduk);

```

```

        String status = "Diterima";
        hasil[i][0] = i+1;
        hasil[i][1] = penduduk[i][1];
        hasil[i][2] = penduduk[i][2];
        hasil[i][3] = penduduk[i][3];
        hasil[i][4] = penduduk[i][4];
        hasil[i][5] = coba[coba.length-1]*1.0;
        hasil[i][6] = penduduk[i][5];
        hasil[i][7] = status;
    }
    for (int i = jum; i < penduduk.length; i++) {
        int kodePenduduk = (Integer) penduduk[i][0];
        int[][] nilai = getNilai(kodePenduduk);
        double[] coba = getFaktor(kodePenduduk);
        String status = "Tidak Diterima";
        hasil[i][0] = i+1;
        hasil[i][1] = penduduk[i][1];
        hasil[i][2] = penduduk[i][2];
        hasil[i][3] = penduduk[i][3];
        hasil[i][4] = penduduk[i][4];
        hasil[i][5] = coba[coba.length-1]*1.0;
        hasil[i][6] = penduduk[i][5];
        hasil[i][7] = status;
    }
}
return hasil;
}

private void btnlihatActionPerformed(java.awt.event.ActionEvent evt) {
    Object[][] penduduk = null;
    penduduk = getDataPenduduk();
    penduduk = sortData(penduduk);
    showTable(tabel, tabelModel, penduduk);
    data = penduduk;
    btncetak.setEnabled(true);
    Database database = new Database();
    Object[] data = new Object[4];
    for (int i = 0; i < tabel.getRowCount(); i++) {
        data[0] = tabel.getValueAt(i, 1);
        data[1] = tabel.getValueAt(i, 5);
        data[2] = tabel.getValueAt(i, 6);
        data[3] = tabel.getValueAt(i, 7);
        database.insertNA(data);
    }
}

private void btncetakActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        Connection koneksi = new Database().konek();
        String report = "src/skripsi/laporan/nilai.jrxml";
    }
}

```

```

        HashMap hashMap = new HashMap();
        JasperReport jasperReport = JasperCompileManager.compileReport(report);
        JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, hashMap,
koneksi);
        JasperViewer.viewReport(jasperPrint,false);
        koneksi.close();
    } catch (JRException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (Exception ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    }
    btncetak.setEnabled(false);
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
koneksi.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                koneksi.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(LaporanHasil.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(LaporanHasil.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(LaporanHasil.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(LaporanHasil.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new LaporanHasil().setVisible(true);
        }
    });
}

private javax.swing.JButton btncetak;
private javax.swing.JButton btnlihat;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel3;
private javax.swing.JPanel jPanel1;

```

```

private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
private javax.swing.JTextField txtjum;
}

```

LaporanNilai.java

```

package skripsi;
import java.sql.Connection;
import java.sql.SQLException;
import java.text.DecimalFormat;
import java.util.HashMap;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.view.JasperViewer;
public class LaporanNilai extends javax.swing.JFrame {
    private DefaultTableModel tabelModel;
    private DecimalFormat decimalFormat;
    public LaporanNilai() {
        initComponents();
        decimalFormat = new DecimalFormat("#.###");
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel){
        Database database = new Database();
        try {
            Object[][] data = database.getPendudukb();
            Object[] dataTable = new Object[17];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
                new String[]{"NO", "Nomor KK", "Nama KK", "Luas Lantai", "Jenis dinding", "Jenis
lantai", "Penerangan", "Sarana Memasak", "Sumber Air", "Jumlah penghasilan",
"pendidikan", "Sanggup Pakaian", "Sanggup Kesehatan"});
            tabel.setModel(tabelModel);
            tabel.getTableHeader().setResizingAllowed(true);
            tabel.getTableHeader().setReorderingAllowed(false);
            for (int i = 0; i < tabel.getColumnCount(); i++) {
                tabel.getColumnModel().getColumn(i).setResizable(true);
            }
        }
    }
}

```



```

        tabelModel.setRowCount(0);
        for (int i = 0; i < data.length; i++) {
            Object[][] dataNilai = database.getNilaiPenduduk((Integer)data[i][0]);
            System.out.println(""+dataNilai.length);
            dataTable[0] = i+1;
            dataTable[1] = data[i][1];
            dataTable[2] = data[i][2];
            for (int j = 0; j < dataNilai.length; j++) {
                dataTable[3+j] = dataNilai[j][1];
            }
            tabelModel.addRow(dataTable);
            for (int j = 0; j < dataNilai.length; j++) {
                dataTable[3+j] = "";
            }
        }
        return true;
    } catch (Exception e) {
        return false;
    } }

private void btnlihatActionPerformed(java.awt.event.ActionEvent evt) {
    showTable(tabel, tabelModel);
    btncetak.setEnabled(true);
}

private void btncetakActionPerformed(java.awt.event.ActionEvent evt) {
    Database database = new Database();
    database.deleteNilaiPenduduk();
    Object[] data = new Object[12];
    for (int i = 0; i < tabel.getRowCount(); i++) {
        data[0] = tabel.getValueAt(i, 0);
        data[1] = tabel.getValueAt(i, 1);
        data[2] = tabel.getValueAt(i, 3);
        data[3] = tabel.getValueAt(i, 4);
        data[4] = tabel.getValueAt(i, 5);
        data[5] = tabel.getValueAt(i, 6);
        data[6] = tabel.getValueAt(i, 7);
        data[7] = tabel.getValueAt(i, 8);
        data[8] = tabel.getValueAt(i, 9);
        data[9] = tabel.getValueAt(i, 10);
        data[10] = tabel.getValueAt(i, 11);
        data[11] = tabel.getValueAt(i, 12);
        database.insertNilaiPenduduk(data);
    }
    try {
        Connection koneksi = new Database().konek();
        String report = "src/skripsi/laporan/laporannilaipenduduk.jrxml";
        HashMap hashMap = new HashMap();
        JasperReport jasperReport = JasperCompileManager.compileReport(report);
        JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, hashMap, koneksi);
    }
}

```

```

        JasperViewer.viewReport(jasperPrint,false);
        koneksi.close();
    } catch (JRException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (Exception ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    }
    btncetak.setEnabled(false);
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(LaporanNilai.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(LaporanNilai.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(LaporanNilai.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(LaporanNilai.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new LaporanNilai().setVisible(true);
        }
    });
}

private javax.swing.JButton btncetak;
private javax.swing.JButton btnlihat;
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabel;
}

```

LaporanSubKriteria.java

```
package skripsi;
import java.sql.Connection;
import java.sql.SQLException;
import java.util.HashMap;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JComboBox;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.view.JasperViewer;
public class LaporanSubKriteria extends javax.swing.JFrame {
    private DefaultTableModel tabelModel;
    public static int kodeKriteria[];
    public LaporanSubKriteria() {
        initComponents();
        kodeKriteria = createComboKriteria(cmbkriteria);
    }
    public static int[] createComboKriteria(JComboBox cmbkriteria){
        int[] hasil = null;
        Database database = new Database();
        try {
            Object[][] data = database.getKriteria();
            hasil = new int[data.length];
            cmbkriteria.removeAllItems();
            for (int i = 0; i < data.length; i++) {
                hasil[i] = (Integer) data[i][0];
                cmbkriteria.addItem(data[i][1]);
            }
        } catch (Exception e) {
        }
        return hasil;
    }
    private boolean showTable(JTable tabel, DefaultTableModel tabelModel,String kriteria){
        Database database = new Database();
        try {
            Object[][] data = database.getLaporanKrit(kriteria);
            Object[] dataTable = new Object[data[0].length+1];
            Table createTable = new Table();
            tabelModel = createTable.getDefaultTableModel(
```

```

        new String[]{"No", "Nama Kriteria", "Nama Sub Kriteria", "Nama Faktor", "Bobot
Faktor", "Bobot Kriteria", "Nilai Profil"});
        tabel.setModel(tabelModel);
        tabel.getTableHeader().setResizingAllowed(true);
        tabel.getTableHeader().setReorderingAllowed(false);
        for (int i = 0; i < tabel.getColumnCount(); i++) {
            tabel.getColumnModel().getColumn(i).setResizable(true);
        }
        tabelModel.setRowCount(0);
        for (int i = 0; i < data.length; i++) {
            dataTable[0] = i+1;
            dataTable[1] = data[i][0];
            dataTable[2] = data[i][1];
            dataTable[3] = data[i][2];
            dataTable[4] = data[i][3];
            dataTable[5] = data[i][4];
            dataTable[6] = data[i][5];
            tabelModel.addRow(dataTable);
        }
        return true;
    } catch (Exception e) {
        return false;
    } }

private void btnlihatActionPerformed(java.awt.event.ActionEvent evt) {
    String idKriteria = cmbkriteria.getSelectedItem().toString().trim();
    showTable(tabel, tabelModel, idKriteria);
}

private void btncetakActionPerformed(java.awt.event.ActionEvent evt) {
    Database database = new Database();
    database.deleteKP();
    Object[] data = new Object[6];
    for (int i = 0; i < tabel.getRowCount(); i++) {
        data[0] = tabel.getValueAt(i, 1);
        data[1] = tabel.getValueAt(i, 2);
        data[2] = tabel.getValueAt(i, 3);
        data[3] = tabel.getValueAt(i, 4);
        data[4] = tabel.getValueAt(i, 5);
        data[5] = tabel.getValueAt(i, 6);
        database.insertKP(data);
    }
    try {
        Connection koneksi = new Database().konek();
        String report = "src/skripsi/laporan/laporannilaipenduduk.jrxml";
        HashMap hashMap = new HashMap();
        JasperReport jasperReport = JasperCompileManager.compileReport(report);
        JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, hashMap, koneksi);
        JasperViewer.viewReport(jasperPrint, false);
    }
}

```

```

        koneksi.close();
    } catch (JRException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    } catch (Exception ex) {
        Logger.getLogger(Skripsi.class.getName()).log(Level.SEVERE, null, ex);
    }
    btncetak.setEnabled(false);
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break; } }
        } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(LaporanSubKriteria.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(LaporanSubKriteria.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(LaporanSubKriteria.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(LaporanSubKriteria.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new LaporanSubKriteria().setVisible(true);
            }
        });
    }
    private javax.swing.JButton btncetak;
    private javax.swing.JButton btnlihat;
    private javax.swing.JComboBox cmbkriteria;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tabel;
}

```

DATABASE :

```

MySQL Command Line Client
server version for the right syntax to use near 'desc kp' at line 2
mysql> desc faktor;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| kode_faktor | int(2)    | NO   | PRI | NULL    | auto_increment |
| nama_faktor | varchar(20) | YES  |     | NULL    |              |
| bobot_faktor | int(2)    | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> desc kp;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| nama_kriteria | varchar(30) | YES  |     | NULL    |              |
| nama_sub_kriteria | varchar(50) | YES  |     | NULL    |              |
| nama_faktor | varchar(30) | YES  |     | NULL    |              |
| bobot_faktor | int(11)    | YES  |     | NULL    |              |
| bobot_kriteria | int(11)    | YES  |     | NULL    |              |
| nilai_profil | int(11)    | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.05 sec)

mysql> desc kriteria;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| kode_kriteria | int(2)    | NO   | PRI | NULL    | auto_increment |
| nama_kriteria | varchar(40) | YES  |     | NULL    |              |
| bobot_kriteria | int(2)    | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.05 sec)

mysql> desc nilai;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| kode_nilai | int(11)    | NO   | PRI | NULL    | auto_increment |
| id | int(11)    | YES  |     | NULL    |              |
| kode_sub_kriteria | int(11)    | YES  |     | NULL    |              |
| nilai | int(11)    | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.03 sec)

mysql> desc nilai_akhir;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| no_kk | char(18)    | YES  |     | NULL    |              |
| nilai_akhir | float     | YES  |     | NULL    |              |
| status | varchar(20) | YES  |     | NULL    |              |
| Periode | varchar(30) | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.06 sec)

mysql> desc nilai_penduduk;

```

MySQL Command Line Client

mysql> DESC NILAI_PENDUDUK;

Field	Type	Null	Key	Default	Extra
id	int(11)	YES		NULL	
no_kk	char(18)	YES		NULL	
luas_lantai	int(11)	YES		NULL	
jenis_dinding	int(11)	YES		NULL	
jenis_lantai	int(11)	YES		NULL	
Penerangan	int(11)	YES		NULL	
sarana_memasak	int(11)	YES		NULL	
Air_Minum	int(11)	YES		NULL	
jumlah_penghasilan	int(11)	YES		NULL	
pendidikan	int(11)	YES		NULL	
Sanggup_pakaian	int(11)	YES		NULL	
Sanggup_kesehatan	int(11)	YES		NULL	

12 rows in set (0.00 sec)

mysql> DESC PENDUDUK;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
no_kk	varchar(18)	YES		NULL	
Nama_KK	varchar(100)	YES		NULL	
RT	int(11)	YES		NULL	
RW	int(11)	YES		NULL	

5 rows in set (0.03 sec)

mysql> DESC SUB_KRITERIA;

Field	Type	Null	Key	Default	Extra
kode_sub_kriteria	int(11)	NO	PRI	NULL	auto_increment
nama_sub_kriteria	varchar(30)	YES		NULL	
nilai_profil	int(2)	YES		NULL	
kode_kriteria	int(11)	NO	MUL	NULL	
kode_faktor	int(2)	YES	MUL	NULL	

5 rows in set (0.03 sec)

mysql> DESC USER;

Field	Type	Null	Key	Default	Extra
id_user	int(11)	NO	PRI	NULL	auto_increment
username	varchar(30)	YES		NULL	
password	varchar(30)	YES		NULL	
posisi	varchar(20)	YES		NULL	

4 rows in set (0.02 sec)

mysql>