

Program Server



Kode Program Server :

```
unit Unit2;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, Sockets, ExtCtrls, StdCtrls, MPlayer, jpeg;

type
  TForm1 = class(TForm)
    TcpClient1: TTcpClient;
    TcpServer1: TTcpServer;
    Panel2: TPanel;
    Label1: TLabel;
    Label3: TLabel;
    pnlUrut: TPanel;
    btnBack: TButton;
    pnlAntri: TPanel;
    pnlLoket: TPanel;
    btnStok: TButton;
    tDateTime: TTimer;
    MediaPlayer1: TMediaPlayer;
    pnlGambar: TPanel;
    Label2: TLabel;
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gSetting: TGroupBox;
Label5: TLabel;
Label6: TLabel;
Label9: TLabel;
btnStart: TButton;
edtSetting1: TEdit;
edtSetting2: TEdit;
tSuara1: TTimer;
tSuara2: TTimer;
tSuara3: TTimer;
tSuara4: TTimer;
tSuara5: TTimer;
tSuara6: TTimer;
tStok: TTimer;
pnlRunning: TPanel;
lblRunning: TLabel;
Image1: TImage;
lbltime: TLabel;
lblDate: TLabel;
Label11: TLabel;
tRunning: TTimer;

procedure TcpServer1Accept(Sender: TObject;
    ClientSocket: TCustomIpClient);
procedure btnStartClick(Sender: TObject);
procedure btnBackClick(Sender: TObject);
procedure btnStokClick(Sender: TObject);
procedure btnStokKeyPress(Sender: TObject; var Key: Char);
procedure tDateTimeTimer(Sender: TObject);
procedure Timer9Timer(Sender: TObject);
procedure tSuara1Timer(Sender: TObject);
procedure tSuara2Timer(Sender: TObject);
procedure tSuara3Timer(Sender: TObject);
procedure tSuara4Timer(Sender: TObject);
procedure tSuara5Timer(Sender: TObject);
procedure tSuara6Timer(Sender: TObject);
procedure edtSetting1KeyPress(Sender: TObject; var Key: Char);
procedure edtSetting2KeyPress(Sender: TObject; var Key: Char);
procedure tStokTimer(Sender: TObject);
procedure btnStartKeyPress(Sender: TObject; var Key: Char);

private
{ Private declarations }
public
{ Public declarations }
procedure pSuara1;
procedure pSuara2;

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    procedure pStok;
end;

var
    Form1: TForm1;
    k,noAntrian,noAkhirlayanan, stok:integer;
    ip,nSatuan,nPuluhan,nRatusan,nSatPul :string;
implementation

uses Unit3;

{$R *.dfm}

// _____

procedure tForm1.pSuara1;
var n:integer;
begin
    if StrToInt(pnlUrut.Caption)<10 then
    begin
        n:=StrToInt(nsatuan);
    end
    else if StrToInt(pnlUrut.Caption)<12 then
    begin
        n:=StrToInt(nSatPul);
    end
    else if StrToInt(pnlUrut.Caption)<20 then
    begin
        n:=StrToInt(nSatuan);
    end
    else if StrToInt(pnlUrut.Caption)<100 then
    begin
        if tSuara4.Enabled then
        begin
            n:=StrToInt(nSatuan);
        end
        else
            n:=StrToInt(nPuluhan);
        end
    else if StrToInt(pnlUrut.Caption)=100 then
    begin
        n:=StrToInt(nSatPul);
    end;
    case n of
        1: mediaplayer1.FileName:='d:/sound/satu.wav';
        2: mediaplayer1.FileName:='d:/sound/dua.wav';
        3: mediaplayer1.FileName:='d:/sound/tiga.wav';
        4: mediaplayer1.FileName:='d:/sound/empat.wav';
        5: mediaplayer1.FileName:='d:/sound/lima.wav';
    end;
end;

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        6: mediaplayer1.FileName:='d:/sound/enam.wav';
        7: mediaplayer1.FileName:='d:/sound/tujuh.wav';
        8: mediaplayer1.FileName:='d:/sound/delapan.wav';
        9: mediaplayer1.FileName:='d:/sound/sembilan.wav';
        10: mediaplayer1.FileName:='d:/sound/sepuluh.wav';
        11: mediaplayer1.FileName:='d:/sound/sebelas.wav';
        100: mediaplayer1.FileName:='d:/sound/seratus.wav';
    end;
    mediaplayer1.Open;
    mediaplayer1.Play;
    end;
procedure TForm1.pSuara2;
var n:integer;
begin
    if StrToInt(pnlUrut.Caption)<20 then
        begin
            n:=1;
        end
    else if k<100 then
        begin
            n:=2;
        end;
    case n of
        1: mediaplayer1.FileName:='d:/sound/belas.wav';
        2: mediaplayer1.FileName:='d:/sound/puluh.wav';
        3: mediaplayer1.FileName:='d:/sound/ratus.wav';
    end;
    mediaplayer1.Open;
    mediaplayer1.Play;
end;

procedure TForm1.pStok;
begin
    tcpclient1.RemotePort:='5001';
    tcpclient1.RemoteHost:='127.0.0.2' ;
    tcpclient1.Active:=true;
    tcpclient1.Sendln(pnlAntri.Caption);
    tcpclient1.Active:=false;

    tcpclient1.RemoteHost:='127.0.0.3';
    tcpclient1.Active:=true;
    tcpclient1.Sendln(IntToStr(Stok));
    tcpclient1.Active:=false;
    tcpclient1.RemotePort:='5000';
end;

procedure TForm1.TcpServer1Accept(Sender: TObject;
    ClientSocket: TCustomIpClient);
var terima, potong1,potong2: string;

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begin
terima:=clientsocket.ReceiveLn();
potong1:= copy(terima,1,Pos('&',terima)-1);
potong2:=copy(terima,pos('&',terima)+1,Length(terima));
// _____

if potong2='127.0.0.2' then
begin
pnlLoket.Caption:='1';
end
else if potong2='127.0.0.3' then
begin
pnlLoket.Caption:='2';
end;

// _____

noAkhirlayanan:=k;
if noAkhirlayanan = noAntrian then
begin
tcpclient1.RemoteHost:=potong2;
tcpclient1.Active:=true;
tcpclient1.SendLn( ' Tidak ada yang mengantri');
tcpclient1.Active:=false;
end
else if noAkhirlayanan <> noAntrian then
begin
if StrToInt(pnlUrut.Caption)>=100 then
begin
k:=0;
end;
end;

if potong1='z' then
begin
k:=k+1;
if k<=100 then
begin
tSuara1.Enabled:=true;
pnlUrut.Caption:=inttostr(k);
end
else
begin
pnlUrut.Caption:='0';
end;
end
else
begin
pnlUrut.Caption:=potong1;

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        tSuara1.Enabled:=true;
    end;

tcpclient1.RemoteHost:=potong2;
tcpclient1.Active:=true;

if potong1='z' then
begin
    tcpclient1.Sendln( ' Anda Melayani No Urut:'+ inttostr(k));
    tcpclient1.Active:=false;
end
else
begin
    tcpclient1.Sendln( ' Anda Melayani No Urut:'+ potong1);
    tcpclient1.Active:=false;
end;
end;

//pemotongan nomor

if StrToInt(pnlUrut.Caption)<10 then
begin
    nSatuan:=copy(pnlUrut.Caption,1,1);
end
else if StrToInt(pnlUrut.Caption)<100 then
begin
    npuluhan:=copy(pnlUrut.Caption,1,1);
    nSatuan:=copy(pnlUrut.Caption,2,1) ;
    nSatPul:=copy(pnlUrut.Caption,1,2);
end ;
// Stok .....
if potong1='z' then
begin
    Stok:=noAntrian-k;
    pnlAntri.Caption:=IntToStr(Stok);
    form1.pStok;
{ tcpclient1.RemoteHost:='127.0.0.2';
  tcpclient1.RemotePort:='5001';
  tcpclient1.Active:=true;
  tcpclient1.Sendln(pnlAntri.Caption);
  tcpclient1.Active:=false;
  tcpclient1.RemotePort:='5000';}
end;

end;

procedure TForm1.btnStartClick(Sender: TObject);
begin
    gSetting.Visible:=false;

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Panel2.Caption:=edtSetting2.Text;
btnStok.SetFocus;
end;

procedure TForm1.btnBackClick(Sender: TObject);
begin
gSetting.Visible:=true;
edtSetting1.SetFocus;
end;
// Stok Antrian _____
procedure TForm1.btnStokClick(Sender: TObject);
begin
if noAntrian>=100 then
begin
noAntrian:=0;
end;
noAntrian:=noAntrian+1;
Stok:=noAntrian-k;
pnlAntri.Caption:=IntToStr(Stok);

form3.Panel1.Caption:=IntToStr(noAntrian);
form3.Panel2.Caption:=edtSetting1.Text;
//form3.Print;
//btnStok.Enabled:=false;
//tStok.Enabled:=true;
//form3.Show;
form1.pStok;
{ tcpclient1.RemoteHost:='127.0.0.2';
tcpclient1.RemotePort:='5001';
tcpclient1.Active:=true;
tcpclient1.Sendln(pnlAntri.Caption);
tcpclient1.Active:=false;
tcpclient1.RemotePort:='5000';}

end;

procedure TForm1.btnStokKeyPress(Sender: TObject; var Key: Char);
begin
if key=chr(68) then
begin
btnStok.Click;
end
else if key=chr(100) then
begin
btnStok.Click;
end;
end;

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end;

procedure TForm1.tDateTimeTimer(Sender: TObject);
begin
  lblTime.Caption :=
    formatdatetime('hh:nn:ss',now);
  lblDate.Caption:=
    formatdatetime('dd-mm-yyyy',now);
  form3.Label2.Caption:=formatdatetime('hh:nn:ss',now)+' / '+
    formatdatetime('dd-mm-yyyy',now);
  lblTime.Refresh;
  lblDate.Refresh;
end;

// Running Text
procedure TForm1.Timer9Timer(Sender: TObject);
var

  bts_kiri, bts_kanan : integer;
begin
  lblRunning.Caption:=edtSetting1.Text;
  bts_kiri:=pnlRunning.left-lblRunning.width;
  bts_kanan:=pnlRunning.Left+lblRunning.Width;
  if lblRunning.Left=bts_kiri then
    begin
      lblRunning.Left:=bts_kanan
    end
  else
    begin
      lblRunning.Left:=lblRunning.Left-1;
    end;
  tRunning.Interval:=10;
end;

procedure TForm1.tSuara1Timer(Sender: TObject);
begin
  mediaplayer1.FileName:='d:/sound/antrian.wav';
  mediaplayer1.Open;
  mediaplayer1.Play;
  tSuara1.Enabled:=false;
  tSuara2.Enabled:=true;
end;

procedure TForm1.tSuara2Timer(Sender: TObject);
begin
  form1.pSuara1;
  tSuara2.Enabled:=false;
  if StrToInt(pnlUrut.Caption)=100 then

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begin
  tSuara5.Enabled:=true;
end
else if StrToInt(pnlUrut.Caption)>11 then
begin
  tSuara3.Enabled:=true;
end
else
begin
  tSuara5.Enabled:=true;
end;
end;

procedure TForm1.tSuara3Timer(Sender: TObject);
begin
  form1.pSuara2;
  tSuara3.Enabled:=false;
  if k>20 then
begin
  if k mod 10=0 then
begin
  tSuara4.Enabled:=false;
  tSuara5.Enabled:=true;
end
else
begin
  tSuara4.Enabled:=true;
end;
end
else
begin
  tSuara5.Enabled:=true;
end;
end;

procedure TForm1.tSuara4Timer(Sender: TObject);
begin
  form1.pSuara1;
  tSuara4.Enabled:=false;
  tSuara5.Enabled:=true;
end;

procedure TForm1.tSuara5Timer(Sender: TObject);
begin
  mediaplayer1.FileName:='d:/sound/kasir.wav';
  mediaplayer1.Open;
  mediaplayer1.Play;
  tSuara5.Enabled:=false;
  tSuara6.Enabled:=true;

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end;

procedure TForm1.tSuara6Timer(Sender: TObject);
begin
case StrToInt(pnlLoket.caption) of
  1: mediaplayer1.FileName:='d:/sound/satu.wav';
  2: mediaplayer1.FileName:='d:/sound/dua.wav';
end;
mediaplayer1.Open;
mediaplayer1.Play;
tSuara6.Enabled:=false;
end;

procedure TForm1.edtSetting1KeyPress(Sender: TObject; var Key:
Char);
begin
if key=chr(13) then
begin
edtSetting2.SetFocus;
end;
end;

procedure TForm1.edtSetting2KeyPress(Sender: TObject; var Key:
Char);
begin
if key=chr(13) then
begin
btnStart.SetFocus;
end;
end;

procedure TForm1.tStokTimer(Sender: TObject);
begin
btnStok.Enabled:=true;
btnStok.SetFocus;
tStok.Enabled:=false;
end;

procedure TForm1.btnStartKeyPress(Sender: TObject; var Key: Char);
begin
if key=chr(13) then
begin
btnStart.Click;
end;
end;

end.

```

Program Client



Kode Program Client :

```
unit Unit1;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, ExtCtrls, Sockets, StdCtrls;

type
  TForm1 = class(TForm)
    btnCall: TButton;
    TcpClient1: TTcpClient;
    TcpServer1: TTcpServer;
    pnlLayanan: TPanel;
    btnRecall: TButton;
    btnNext: TButton;
    Timer1: TTimer;
    TcpServer2: TTcpServer;
    pStok: TPanel;
    lblSetting: TLabel;
    pnlIP: TPanel;
    edtIP: TEdit;
    btnOk: TButton;
    btnCancel: TButton;
    Label2: TLabel;
    lblAntri: TLabel;
    procedure btnCallClick(Sender: TObject);
    procedure TcpServer1Accept(Sender: TObject;
      ClientSocket: TCustomIpClient);
    procedure btnRecallClick(Sender: TObject);
    procedure btnNextClick(Sender: TObject);
    procedure TcpServer2Accept(Sender: TObject;
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        ClientSocket: TCustomIpClient);
    procedure btnOkClick(Sender: TObject);
    procedure btnCancelClick(Sender: TObject);
    procedure FormCreate(Sender: TObject);
    procedure lblSetiingDb1Click(Sender: TObject);
    procedure Timer1Timer(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    Form1: TForm1;
    potong2 :string;
    klik:integer;

implementation

{$R *.dfm}

procedure TForm1.btnCallClick(Sender: TObject);
begin
    klik:=0;
    btnCall.Enabled:=false;
    btnRecall.Enabled:=false;
    btnNext.Enabled:=false;
    timer1.Enabled:=true;

    tcpclient1.Active:=true;
    tcpclient1.Sendln('z'+'&' + tcpserver1.LocalHost);
    tcpclient1.Active:=false;
    tcpserver1.Active:=true;
end;

procedure TForm1.TcpServer1Accept(Sender: TObject;
    ClientSocket: TCustomIpClient);
    var terima:string ;
    begin

    pnlLayanan.Caption:=clientsocket.ReceiveLn();
    terima :=pnlLayanan.Caption;
    potong2:=copy(terima,pos(':',terima)+1,Length(terima));
end;

procedure TForm1.btnRecallClick(Sender: TObject);
begin
    klik:=klik+1;

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tcpclient1.Active:=true;
tcpclient1.Sendln(potong2+'&' + tcpserver1.LocalHost);
tcpclient1.Active:=false;
tcpserver1.Active:=false;
pnlLayanan.Caption:='Panggilan ke : '+inttostr(klik)+' Untuk Nomor
: '+potong2;
if klik=2 then
begin
  btnCall.Enabled:=false;
  btnRecall.Enabled:=false;
  btnNext.Enabled:=true;
end;
end;

procedure TForm1.btnNextClick(Sender: TObject);
begin

tcpclient1.Active:=true;
tcpclient1.Sendln('z'+&' + tcpserver1.LocalHost);
tcpclient1.Active:=false;
tcpserver1.Active:=true;

btnCall.Enabled:=true;
btnRecall.Enabled:=true;
btnNext.Enabled:=false ;

klik:=0;
end;

procedure TForm1.TcpServer2Accept(Sender: TObject;
  ClientSocket: TCustomIpClient);
var Stok:String;
begin
Stok:=clientsocket.Receiveln();
pStok.Caption:=Stok;

end;

procedure TForm1.btnOkClick(Sender: TObject);
begin
tcpserver1.Active:=false;
tcpserver2.Active:=false;
tcpserver1.LocalHost:=edtIP.Text;
tcpserver2.LocalHost:=edtIP.Text;
tcpserver1.Active:=true;

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tcpserver2.Active:=true;
pnlIP.Enabled:=false;
pnlIP.Visible:=false;
btnCall.SetFocus;
label2.Caption:=tcpserver2.LocalHost;
end;

procedure TForm1.btnCancelClick(Sender: TObject);
begin
pnlIP.Enabled:=false;
pnlIP.Visible:=false;
btncall.SetFocus;
end;

procedure TForm1.FormCreate(Sender: TObject);
begin
tcpserver2.Active:=false;
tcpserver2.LocalHost:=tcpserver1.LocalHost;
tcpserver2.Active:=true;
label2.Caption:=tcpserver2.LocalHost;
end;

procedure TForm1.lblSetiingDbClick(Sender: TObject);
begin
pnlIP.Enabled:=true;
pnlIP.Visible:=true;
btnOK.SetFocus;
end;

procedure TForm1.Timer1Timer(Sender: TObject);
begin
  if btnNext.Enabled=true then
  begin
    btnCall.Enabled:=false;
    btnRecall.Enabled:=false;
  end
  else if btnNext.Enabled=false then
  begin
    btnCall.Enabled:=true;
    btnRecall.Enabled:=true;
  end;
  if pStok.Caption='0' then
  begin
    btnrecall.Enabled:=false;
  end;
end;

end.

```