**LAMPIRAN**

1. ***Source Code* Proses Halaman Utama**

procedure TCari\_jarak.prosesClick(Sender: TObject);

begin

if proses.Caption='Reset' then begin

 AppName := PChar(Application.ExeName);

 WinExec(AppName, SW\_SHOW);

 Application.Terminate;

end

else begin

 if EditLZ.Enabled=False then garis[1,1,1]:=5000 else garis[1,1,1]:=StrToInt(EditLZ.Text);

 if EditMZ.Enabled=False then garis[1,2,1]:=5000 else garis[1,2,1]:=StrToInt(EditMZ.Text);

 if EditNZ.Enabled=False then garis[1,3,1]:=5000 else garis[1,3,1]:=StrToInt(EditNZ.Text);

 if EditOZ.Enabled=False then garis[1,4,1]:=5000 else garis[1,4,1]:=StrToInt(EditOZ.Text);

 if EditPZ.Enabled=False then garis[1,5,1]:=5000 else garis[1,5,1]:=StrToInt(EditPZ.Text);

 if EditGL.Enabled=False then garis[2,1,1]:=5000 else garis[2,1,1]:=StrToInt(EditGL.Text);

 if EditGM.Enabled=False then garis[2,1,2]:=5000 else garis[2,1,2]:=StrToInt(EditGM.Text);

 if EditGN.Enabled=False then garis[2,1,3]:=5000 else garis[2,1,3]:=StrToInt(EditGN.Text);

 if EditGO.Enabled=False then garis[2,1,4]:=5000 else garis[2,1,4]:=StrToInt(EditGO.Text);

 if EditGP.Enabled=False then garis[2,1,5]:=5000 else garis[2,1,5]:=StrToInt(EditGP.Text);

 if EditHL.Enabled=False then garis[2,2,1]:=5000 else garis[2,2,1]:=StrToInt(EditHL.Text);

 if EditHM.Enabled=False then garis[2,2,2]:=5000 else garis[2,2,2]:=StrToInt(EditHM.Text);

 if EditHN.Enabled=False then garis[2,2,3]:=5000 else garis[2,2,3]:=StrToInt(EditHN.Text);

 if EditHO.Enabled=False then garis[2,2,4]:=5000 else garis[2,2,4]:=StrToInt(EditHO.Text);

 if EditHP.Enabled=False then garis[2,2,5]:=5000 else garis[2,2,5]:=StrToInt(EditHP.Text);

 if EditIL.Enabled=False then garis[2,3,1]:=5000 else garis[2,3,1]:=StrToInt(EditIL.Text);

 if EditIM.Enabled=False then garis[2,3,2]:=5000 else garis[2,3,2]:=StrToInt(EditIM.Text);

 if EditIN.Enabled=False then garis[2,3,3]:=5000 else garis[2,3,3]:=StrToInt(EditIN.Text);

 if EditIO.Enabled=False then garis[2,3,4]:=5000 else garis[2,3,4]:=StrToInt(EditIO.Text);

 if EditIP.Enabled=False then garis[2,3,5]:=5000 else garis[2,3,5]:=StrToInt(EditIP.Text);

 if EditJL.Enabled=False then garis[2,4,1]:=5000 else garis[2,4,1]:=StrToInt(EditJL.Text);

 if EditJM.Enabled=False then garis[2,4,2]:=5000 else garis[2,4,2]:=StrToInt(EditJM.Text);

 if EditJN.Enabled=False then garis[2,4,3]:=5000 else garis[2,4,3]:=StrToInt(EditJN.Text);

 if EditJO.Enabled=False then garis[2,4,4]:=5000 else garis[2,4,4]:=StrToInt(EditJO.Text);

 if EditJP.Enabled=False then garis[2,4,5]:=5000 else garis[2,4,5]:=StrToInt(EditJP.Text);

 if EditKL.Enabled=False then garis[2,5,1]:=5000 else garis[2,5,1]:=StrToInt(EditKL.Text);

 if EditKM.Enabled=False then garis[2,5,2]:=5000 else garis[2,5,2]:=StrToInt(EditKM.Text);

 if EditKN.Enabled=False then garis[2,5,3]:=5000 else garis[2,5,3]:=StrToInt(EditKN.Text);

 if EditKO.Enabled=False then garis[2,5,4]:=5000 else garis[2,5,4]:=StrToInt(EditKO.Text);

 if EditKP.Enabled=False then garis[2,5,5]:=5000 else garis[2,5,5]:=StrToInt(EditKP.Text);

 if EditBG.Enabled=False then garis[3,1,1]:=5000 else garis[3,1,1]:=StrToInt(EditBG.Text);

 if EditBH.Enabled=False then garis[3,1,2]:=5000 else garis[3,1,2]:=StrToInt(EditBH.Text);

 if EditBI.Enabled=False then garis[3,1,3]:=5000 else garis[3,1,3]:=StrToInt(EditBI.Text);

 if EditBJ.Enabled=False then garis[3,1,4]:=5000 else garis[3,1,4]:=StrToInt(EditBJ.Text);

 if EditBK.Enabled=False then garis[3,1,5]:=5000 else garis[3,1,5]:=StrToInt(EditBK.Text);

 if EditCG.Enabled=False then garis[3,2,1]:=5000 else garis[3,2,1]:=StrToInt(EditCG.Text);

 if EditCH.Enabled=False then garis[3,2,2]:=5000 else garis[3,2,2]:=StrToInt(EditCH.Text);

 if EditCI.Enabled=False then garis[3,2,3]:=5000 else garis[3,2,3]:=StrToInt(EditCI.Text);

 if EditCJ.Enabled=False then garis[3,2,4]:=5000 else garis[3,2,4]:=StrToInt(EditCJ.Text);

 if EditCK.Enabled=False then garis[3,2,5]:=5000 else garis[3,2,5]:=StrToInt(EditCK.Text);

 if EditDG.Enabled=False then garis[3,3,1]:=5000 else garis[3,3,1]:=StrToInt(EditDG.Text);

 if EditDH.Enabled=False then garis[3,3,2]:=5000 else garis[3,3,2]:=StrToInt(EditDH.Text);

 if EditDI.Enabled=False then garis[3,3,3]:=5000 else garis[3,3,3]:=StrToInt(EditDI.Text);

 if EditDJ.Enabled=False then garis[3,3,4]:=5000 else garis[3,3,4]:=StrToInt(EditDJ.Text);

 if EditDK.Enabled=False then garis[3,3,5]:=5000 else garis[3,3,5]:=StrToInt(EditDK.Text);

 if EditEG.Enabled=False then garis[3,4,1]:=5000 else garis[3,4,1]:=StrToInt(EditEG.Text);

 if EditEH.Enabled=False then garis[3,4,2]:=5000 else garis[3,4,2]:=StrToInt(EditEH.Text);

 if EditEI.Enabled=False then garis[3,4,3]:=5000 else garis[3,4,3]:=StrToInt(EditEI.Text);

 if EditEJ.Enabled=False then garis[3,4,4]:=5000 else garis[3,4,4]:=StrToInt(EditEJ.Text);

 if EditEK.Enabled=False then garis[3,4,5]:=5000 else garis[3,4,5]:=StrToInt(EditEK.Text);

 if EditFG.Enabled=False then garis[3,5,1]:=5000 else garis[3,5,1]:=StrToInt(EditFG.Text);

 if EditFH.Enabled=False then garis[3,5,2]:=5000 else garis[3,5,2]:=StrToInt(EditFH.Text);

 if EditFI.Enabled=False then garis[3,5,3]:=5000 else garis[3,5,3]:=StrToInt(EditFI.Text);

 if EditFJ.Enabled=False then garis[3,5,4]:=5000 else garis[3,5,4]:=StrToInt(EditFJ.Text);

 if EditFK.Enabled=False then garis[3,5,5]:=5000 else garis[3,5,5]:=StrToInt(EditFK.Text);

 if EditAB.Enabled=False then garis[4,1,1]:=5000 else garis[4,1,1]:=StrToInt(EditAB.Text);

 if EditAC.Enabled=False then garis[4,1,2]:=5000 else garis[4,1,2]:=StrToInt(EditAC.Text);

 if EditAD.Enabled=False then garis[4,1,3]:=5000 else garis[4,1,3]:=StrToInt(EditAD.Text);

 if EditAE.Enabled=False then garis[4,1,4]:=5000 else garis[4,1,4]:=StrToInt(EditAE.Text);

 if EditAF.Enabled=False then garis[4,1,5]:=5000 else garis[4,1,5]:=StrToInt(EditAF.Text);

 if garis[1,1,1]=0 then

 if garis[1,2,1]=0 then

 if garis[1,3,1]=0 then

 if garis[1,4,1]=0 then

 if garis[1,5,1]=0 then

 if garis[2,1,1]=0 then

 if garis[2,1,2]=0 then

 if garis[2,1,3]=0 then

 if garis[2,1,4]=0 then

 if garis[2,1,5]=0 then

 if garis[2,2,1]=0 then

 if garis[2,2,2]=0 then

 if garis[2,2,3]=0 then

 if garis[2,2,4]=0 then

 if garis[2,2,5]=0 then

 if garis[2,3,1]=0 then

 if garis[2,3,2]=0 then

 if garis[2,3,3]=0 then

 if garis[2,3,4]=0 then

 if garis[2,3,5]=0 then

 if garis[2,4,1]=0 then

 if garis[2,4,2]=0 then

 if garis[2,4,3]=0 then

 if garis[2,4,4]=0 then

 if garis[2,4,5]=0 then

 if garis[2,5,1]=0 then

 if garis[2,5,2]=0 then

 if garis[2,5,3]=0 then

 if garis[2,5,4]=0 then

 if garis[2,5,5]=0 then

 if garis[3,1,1]=0 then

 if garis[3,1,2]=0 then

 if garis[3,1,3]=0 then

 if garis[3,1,4]=0 then

 if garis[3,1,5]=0 then

 if garis[3,2,1]=0 then

 if garis[3,2,2]=0 then

 if garis[3,2,3]=0 then

 if garis[3,2,4]=0 then

 if garis[3,2,5]=0 then

 if garis[3,3,1]=0 then

 if garis[3,3,2]=0 then

 if garis[3,3,3]=0 then

 if garis[3,3,4]=0 then

 if garis[3,3,5]=0 then

 if garis[3,4,1]=0 then

 if garis[3,4,2]=0 then

 if garis[3,4,3]=0 then

 if garis[3,4,4]=0 then

 if garis[3,4,5]=0 then

 if garis[3,5,1]=0 then

 if garis[3,5,2]=0 then

 if garis[3,5,3]=0 then

 if garis[3,5,4]=0 then

 if garis[3,5,5]=0 then

 if garis[4,1,1]=0 then

 if garis[4,1,2]=0 then

 if garis[4,1,3]=0 then

 if garis[4,1,4]=0 then

 if garis[4,1,5]=0 then

 begin

 ShowMessage('Maaf, semua data yang anda masukkan bernilai 0.');

 Exit;

 end;

 //Lapis 1

 for i:=1 to 5 do

 for j:=1 to 5 do

 titik[1,i,j]:=garis[2,i,j]+garis[1,j,1];

 banyak1:=0;

 for i:=1 to 5 do

 begin

 min[1,i]:=titik[1,i,1];

 for j:=2 to 5 do

 if min[1,i]>titik[1,i,j] then min[1,i]:=titik[1,i,j];

 for j:=1 to 5 do

 if min[1,i]=titik[1,i,j] then

 begin

 banyak1:=banyak1+1;

 jalur1[banyak1,1]:=j;

 jalur1[banyak1,2]:=i;

 end;

 end;

 //Lapis 2

 for i:=1 to 5 do

 for j:=1 to 5 do

 titik[2,i,j]:=garis[3,i,j]+min[1,j];

 banyak2:=0;

 for i:=1 to 5 do

 begin

 min[2,i]:=titik[2,i,1];

 for j:=2 to 5 do

 if min[2,i]>titik[2,i,j] then min[2,i]:=titik[2,i,j];

 for j:=1 to 5 do

 if min[2,i]=titik[2,i,j] then

 for k:=1 to banyak1 do

 if jalur1[k,2]=j then

 begin

 banyak2:=banyak2+1;

 jalur2[banyak2,1]:=jalur1[k,1];

 jalur2[banyak2,2]:=jalur1[k,2];

 jalur2[banyak2,3]:=i;

 end;

 end;

 //Lapis 3

 for i:=1 to 5 do

 titik[3,1,i]:=garis[4,1,i]+min[2,i];

 banyak3:=0;

 min[3,1]:=titik[3,1,1];

 for i:=2 to 5 do

 if min[3,1]>titik[3,1,i] then min[3,1]:=titik[3,1,i];

 for i:=1 to 5 do

 if min[3,1]=titik[3,1,i] then

 for j:=1 to banyak2 do

 if jalur2[j,3]=i then

 begin

 banyak3:=banyak3+1;

 jalur3[banyak3,1]:=jalur2[j,1];

 jalur3[banyak3,2]:=jalur2[j,2];

 jalur3[banyak3,3]:=jalur2[j,3];

 jalur3[banyak3,4]:=1;

 end;

 //Konversi jalur

 for i:=1 to banyak3 do

 begin

 if jalur3[i,1]=1 then jalur\_titik[i,1]:='L-Z'

 else if jalur3[i,1]=2 then jalur\_titik[i,1]:='M-Z'

 else if jalur3[i,1]=3 then jalur\_titik[i,1]:='N-Z'

 else if jalur3[i,1]=4 then jalur\_titik[i,1]:='O-Z'

 else if jalur3[i,1]=5 then jalur\_titik[i,1]:='P-Z';

 if jalur3[i,2]=1 then jalur\_titik[i,2]:='G-'

 else if jalur3[i,2]=2 then jalur\_titik[i,2]:='H-'

 else if jalur3[i,2]=3 then jalur\_titik[i,2]:='I-'

 else if jalur3[i,2]=4 then jalur\_titik[i,2]:='J-'

 else if jalur3[i,2]=5 then jalur\_titik[i,2]:='K-';

 if jalur3[i,3]=1 then jalur\_titik[i,3]:='A-B-'

 else if jalur3[i,3]=2 then jalur\_titik[i,3]:='A-C-'

 else if jalur3[i,3]=3 then jalur\_titik[i,3]:='A-D-'

 else if jalur3[i,3]=4 then jalur\_titik[i,3]:='A-E-'

 else if jalur3[i,3]=5 then jalur\_titik[i,3]:='A-F-';

 end;

 if min[3,1]>4000 then

 begin

 ShowMessage('Maaf, ada jalur yang tidak terhubung dan solusi tidak ditemukan.');

 Exit;

 end;

 jarak.Caption:='Jarak minimum = '+IntToStr(min[3,1]);

 jarak.Visible:=True;

 MemoJalur.Clear;

 for i:=1 to banyak3 do

 begin

 hasil\_jalur:=jalur\_titik[i,3]+jalur\_titik[i,2]+jalur\_titik[i,1];

 MemoJalur.Lines.Add(hasil\_jalur);

 end;

 MemoJalur.Visible:=True;

 for i:=1 to banyak3 do

 begin

 hasil\_jalur:=jalur\_titik[i,3]+jalur\_titik[i,2]+jalur\_titik[i,1];

 //Kolom 1

 if copy(hasil\_jalur,1,3)='A-B' then Line2AB.Visible:=True;

 if copy(hasil\_jalur,1,3)='A-C' then Line2AC.Visible:=True;

 if copy(hasil\_jalur,1,3)='A-D' then Line2AD.Visible:=True;

 if copy(hasil\_jalur,1,3)='A-E' then Line2AE.Visible:=True;

 if copy(hasil\_jalur,1,3)='A-F' then Line2AF.Visible:=True;

 //Kolom 2

 if copy(hasil\_jalur,3,3)='B-G' then Line2BG.Visible:=True;

 if copy(hasil\_jalur,3,3)='B-H' then Line2BH.Visible:=True;

 if copy(hasil\_jalur,3,3)='B-I' then Line2BI.Visible:=True;

 if copy(hasil\_jalur,3,3)='B-J' then Line2BJ.Visible:=True;

 if copy(hasil\_jalur,3,3)='B-K' then Line2BK.Visible:=True;

 if copy(hasil\_jalur,3,3)='C-G' then Line2CG.Visible:=True;

 if copy(hasil\_jalur,3,3)='C-H' then Line2CH.Visible:=True;

 if copy(hasil\_jalur,3,3)='C-I' then Line2CI.Visible:=True;

 if copy(hasil\_jalur,3,3)='C-J' then Line2CJ.Visible:=True;

 if copy(hasil\_jalur,3,3)='C-K' then Line2CK.Visible:=True;

 if copy(hasil\_jalur,3,3)='D-G' then Line2DG.Visible:=True;

 if copy(hasil\_jalur,3,3)='D-H' then Line2DH.Visible:=True;

 if copy(hasil\_jalur,3,3)='D-I' then Line2DI.Visible:=True;

 if copy(hasil\_jalur,3,3)='D-J' then Line2DJ.Visible:=True;

 if copy(hasil\_jalur,3,3)='D-K' then Line2DK.Visible:=True;

 if copy(hasil\_jalur,3,3)='E-G' then Line2EG.Visible:=True;

 if copy(hasil\_jalur,3,3)='E-H' then Line2EH.Visible:=True;

 if copy(hasil\_jalur,3,3)='E-I' then Line2EI.Visible:=True;

 if copy(hasil\_jalur,3,3)='E-J' then Line2EJ.Visible:=True;

 if copy(hasil\_jalur,3,3)='E-K' then Line2EK.Visible:=True;

 if copy(hasil\_jalur,3,3)='F-G' then Line2FG.Visible:=True;

 if copy(hasil\_jalur,3,3)='F-H' then Line2FH.Visible:=True;

 if copy(hasil\_jalur,3,3)='F-I' then Line2FI.Visible:=True;

 if copy(hasil\_jalur,3,3)='F-J' then Line2FJ.Visible:=True;

 if copy(hasil\_jalur,3,3)='F-K' then Line2FK.Visible:=True;

 //Kolom 3

 if copy(hasil\_jalur,5,3)='G-L' then Line2GL.Visible:=True;

 if copy(hasil\_jalur,5,3)='G-M' then Line2GM.Visible:=True;

 if copy(hasil\_jalur,5,3)='G-N' then Line2GN.Visible:=True;

 if copy(hasil\_jalur,5,3)='G-O' then Line2GO.Visible:=True;

 if copy(hasil\_jalur,5,3)='G-P' then Line2GP.Visible:=True;

 if copy(hasil\_jalur,5,3)='H-L' then Line2HL.Visible:=True;

 if copy(hasil\_jalur,5,3)='H-M' then Line2HM.Visible:=True;

 if copy(hasil\_jalur,5,3)='H-N' then Line2HN.Visible:=True;

 if copy(hasil\_jalur,5,3)='H-O' then Line2HO.Visible:=True;

 if copy(hasil\_jalur,5,3)='H-P' then Line2HP.Visible:=True;

 if copy(hasil\_jalur,5,3)='I-L' then Line2IL.Visible:=True;

 if copy(hasil\_jalur,5,3)='I-M' then Line2IM.Visible:=True;

 if copy(hasil\_jalur,5,3)='I-N' then Line2IN.Visible:=True;

 if copy(hasil\_jalur,5,3)='I-O' then Line2IO.Visible:=True;

 if copy(hasil\_jalur,5,3)='I-P' then Line2IP.Visible:=True;

 if copy(hasil\_jalur,5,3)='J-L' then Line2JL.Visible:=True;

 if copy(hasil\_jalur,5,3)='J-M' then Line2JM.Visible:=True;

 if copy(hasil\_jalur,5,3)='J-N' then Line2JN.Visible:=True;

 if copy(hasil\_jalur,5,3)='J-O' then Line2JO.Visible:=True;

 if copy(hasil\_jalur,5,3)='J-P' then Line2JP.Visible:=True;

 if copy(hasil\_jalur,5,3)='K-L' then Line2KL.Visible:=True;

 if copy(hasil\_jalur,5,3)='K-M' then Line2KM.Visible:=True;

 if copy(hasil\_jalur,5,3)='K-N' then Line2KN.Visible:=True;

 if copy(hasil\_jalur,5,3)='K-O' then Line2KO.Visible:=True;

 if copy(hasil\_jalur,5,3)='K-P' then Line2KP.Visible:=True;

 //Kolom 4

 if copy(hasil\_jalur,7,3)='L-Z' then Line2LZ.Visible:=True;

 if copy(hasil\_jalur,7,3)='M-Z' then Line2MZ.Visible:=True;

 if copy(hasil\_jalur,7,3)='N-Z' then Line2NZ.Visible:=True;

 if copy(hasil\_jalur,7,3)='O-Z' then Line2OZ.Visible:=True;

 if copy(hasil\_jalur,7,3)='P-Z' then Line2PZ.Visible:=True;

 end;

end;

1. ***Source Code* Contoh Proses Pemilihan Rute**

procedure TCari\_jarak.ButtonABClick(Sender: TObject);

begin

 if EditAB.Enabled = true then EditAB.Enabled:=false

 else EditAB.Enabled:=true;

 if LineAB.Visible = true then LineAB.Visible:=false

 else LineAB.Visible:=true;

end;

1. ***Source Code* Tombol Hapus/Munculkan Semua**

procedure TCari\_jarak.munculClick(Sender: TObject);

begin

 jarak.Visible:=False;

 memojalur.Visible:=False;

 if muncul.Caption='Hapus Semua!' then

 begin;

 EditAB.Enabled := False;

 EditAC.Enabled := False;

 EditAD.Enabled := False;

 EditAE.Enabled := False;

 EditAF.Enabled := False;

 EditBG.Enabled := False;

 EditBH.Enabled := False;

 EditBI.Enabled := False;

 EditBJ.Enabled := False;

 EditBK.Enabled := False;

 EditCG.Enabled := False;

 EditCH.Enabled := False;

 EditCI.Enabled := False;

 EditCJ.Enabled := False;

 EditCK.Enabled := False;

 EditDG.Enabled := False;

 EditDH.Enabled := False;

 EditDI.Enabled := False;

 EditDJ.Enabled := False;

 EditDK.Enabled := False;

 EditEG.Enabled := False;

 EditEH.Enabled := False;

 EditEI.Enabled := False;

 EditEJ.Enabled := False;

 EditEK.Enabled := False;

 EditFG.Enabled := False;

 EditFH.Enabled := False;

 EditFI.Enabled := False;

 EditFJ.Enabled := False;

 EditFK.Enabled := False;

 EditGL.Enabled := False;

 EditGM.Enabled := False;

 EditGN.Enabled := False;

 EditGO.Enabled := False;

 EditGP.Enabled := False;

 EditHL.Enabled := False;

 EditHM.Enabled := False;

 EditHN.Enabled := False;

 EditHO.Enabled := False;

 EditHP.Enabled := False;

 EditIL.Enabled := False;

 EditIM.Enabled := False;

 EditIN.Enabled := False;

 EditIO.Enabled := False;

 EditIP.Enabled := False;

 EditJL.Enabled := False;

 EditJM.Enabled := False;

 EditJN.Enabled := False;

 EditJO.Enabled := False;

 EditJP.Enabled := False;

 EditKL.Enabled := False;

 EditKM.Enabled := False;

 EditKN.Enabled := False;

 EditKO.Enabled := False;

 EditKP.Enabled := False;

 EditLZ.Enabled := False;

 EditMZ.Enabled := False;

 EditNZ.Enabled := False;

 EditOZ.Enabled := False;

 EditPZ.Enabled := False;

 EditAB.Text:='0';

 EditAC.Text:='0';

 EditAD.Text:='0';

 EditAE.Text:='0';

 EditAF.Text:='0';

 EditBG.Text:='0';

 EditBH.Text:='0';

 EditBI.Text:='0';

 EditBJ.Text:='0';

 EditBK.Text:='0';

 EditCG.Text:='0';

 EditCH.Text:='0';

 EditCI.Text:='0';

 EditCJ.Text:='0';

 EditCK.Text:='0';

 EditDG.Text:='0';

 EditDH.Text:='0';

 EditDI.Text:='0';

 EditDJ.Text:='0';

 EditDK.Text:='0';

 EditEG.Text:='0';

 EditEH.Text:='0';

 EditEI.Text:='0';

 EditEJ.Text:='0';

 EditEK.Text:='0';

 EditFG.Text:='0';

 EditFH.Text:='0';

 EditFI.Text:='0';

 EditFJ.Text:='0';

 EditFK.Text:='0';

 EditGL.Text:='0';

 EditGM.Text:='0';

 EditGN.Text:='0';

 EditGO.Text:='0';

 EditGP.Text:='0';

 EditHL.Text:='0';

 EditHM.Text:='0';

 EditHN.Text:='0';

 EditHO.Text:='0';

 EditHP.Text:='0';

 EditIL.Text:='0';

 EditIM.Text:='0';

 EditIN.Text:='0';

 EditIO.Text:='0';

 EditIP.Text:='0';

 EditJL.Text:='0';

 EditJM.Text:='0';

 EditJN.Text:='0';

 EditJO.Text:='0';

 EditJP.Text:='0';

 EditKL.Text:='0';

 EditKM.Text:='0';

 EditKN.Text:='0';

 EditKO.Text:='0';

 EditKP.Text:='0';

 EditLZ.Text:='0';

 EditMZ.Text:='0';

 EditNZ.Text:='0';

 EditOZ.Text:='0';

 EditPZ.Text:='0';

 LineAB.Visible := False;

 LineAC.Visible := False;

 LineAD.Visible := False;

 LineAE.Visible := False;

 LineAF.Visible := False;

 LineBG.Visible := False;

 LineBH.Visible := False;

 LineBI.Visible := False;

 LineBJ.Visible := False;

 LineBK.Visible := False;

 LineCG.Visible := False;

 LineCH.Visible := False;

 LineCI.Visible := False;

 LineCJ.Visible := False;

 LineCK.Visible := False;

 LineDG.Visible := False;

 LineDH.Visible := False;

 LineDI.Visible := False;

 LineDJ.Visible := False;

 LineDK.Visible := False;

 LineEG.Visible := False;

 LineEH.Visible := False;

 LineEI.Visible := False;

 LineEJ.Visible := False;

 LineEK.Visible := False;

 LineFG.Visible := False;

 LineFH.Visible := False;

 LineFI.Visible := False;

 LineFJ.Visible := False;

 LineFK.Visible := False;

 LineGL.Visible := False;

 LineGM.Visible := False;

 LineGN.Visible := False;

 LineGO.Visible := False;

 LineGP.Visible := False;

 LineHL.Visible := False;

 LineHM.Visible := False;

 LineHN.Visible := False;

 LineHO.Visible := False;

 LineHP.Visible := False;

 LineIL.Visible := False;

 LineIM.Visible := False;

 LineIN.Visible := False;

 LineIO.Visible := False;

 LineIP.Visible := False;

 LineJL.Visible := False;

 LineJM.Visible := False;

 LineJN.Visible := False;

 LineJO.Visible := False;

 LineJP.Visible := False;

 LineKL.Visible := False;

 LineKM.Visible := False;

 LineKN.Visible := False;

 LineKO.Visible := False;

 LineKP.Visible := False;

 LineLZ.Visible := False;

 LineMZ.Visible := False;

 LineNZ.Visible := False;

 LineOZ.Visible := False;

 LinePZ.Visible := False;

 Line2AB.Visible := False;

 Line2AC.Visible := False;

 Line2AD.Visible := False;

 Line2AE.Visible := False;

 Line2AF.Visible := False;

 Line2BG.Visible := False;

 Line2BH.Visible := False;

 Line2BI.Visible := False;

 Line2BJ.Visible := False;

 Line2BK.Visible := False;

 Line2CG.Visible := False;

 Line2CH.Visible := False;

 Line2CI.Visible := False;

 Line2CJ.Visible := False;

 Line2CK.Visible := False;

 Line2DG.Visible := False;

 Line2DH.Visible := False;

 Line2DI.Visible := False;

 Line2DJ.Visible := False;

 Line2DK.Visible := False;

 Line2EG.Visible := False;

 Line2EH.Visible := False;

 Line2EI.Visible := False;

 Line2EJ.Visible := False;

 Line2EK.Visible := False;

 Line2FG.Visible := False;

 Line2FH.Visible := False;

 Line2FI.Visible := False;

 Line2FJ.Visible := False;

 Line2FK.Visible := False;

 Line2GL.Visible := False;

 Line2GM.Visible := False;

 Line2GN.Visible := False;

 Line2GO.Visible := False;

 Line2GP.Visible := False;

 Line2HL.Visible := False;

 Line2HM.Visible := False;

 Line2HN.Visible := False;

 Line2HO.Visible := False;

 Line2HP.Visible := False;

 Line2IL.Visible := False;

 Line2IM.Visible := False;

 Line2IN.Visible := False;

 Line2IO.Visible := False;

 Line2IP.Visible := False;

 Line2JL.Visible := False;

 Line2JM.Visible := False;

 Line2JN.Visible := False;

 Line2JO.Visible := False;

 Line2JP.Visible := False;

 Line2KL.Visible := False;

 Line2KM.Visible := False;

 Line2KN.Visible := False;

 Line2KO.Visible := False;

 Line2KP.Visible := False;

 Line2LZ.Visible := False;

 Line2MZ.Visible := False;

 Line2NZ.Visible := False;

 Line2OZ.Visible := False;

 Line2PZ.Visible := False;

 muncul.Caption:='Munculkan Semua!';

 end

 else begin

 EditAB.Enabled := True;

 EditAC.Enabled := True;

 EditAD.Enabled := True;

 EditAE.Enabled := True;

 EditAF.Enabled := True;

 EditBG.Enabled := True;

 EditBH.Enabled := True;

 EditBI.Enabled := True;

 EditBJ.Enabled := True;

 EditBK.Enabled := True;

 EditCG.Enabled := True;

 EditCH.Enabled := True;

 EditCI.Enabled := True;

 EditCJ.Enabled := True;

 EditCK.Enabled := True;

 EditDG.Enabled := True;

 EditDH.Enabled := True;

 EditDI.Enabled := True;

 EditDJ.Enabled := True;

 EditDK.Enabled := True;

 EditEG.Enabled := True;

 EditEH.Enabled := True;

 EditEI.Enabled := True;

 EditEJ.Enabled := True;

 EditEK.Enabled := True;

 EditFG.Enabled := True;

 EditFH.Enabled := True;

 EditFI.Enabled := True;

 EditFJ.Enabled := True;

 EditFK.Enabled := True;

 EditGL.Enabled := True;

 EditGM.Enabled := True;

 EditGN.Enabled := True;

 EditGO.Enabled := True;

 EditGP.Enabled := True;

 EditHL.Enabled := True;

 EditHM.Enabled := True;

 EditHN.Enabled := True;

 EditHO.Enabled := True;

 EditHP.Enabled := True;

 EditIL.Enabled := True;

 EditIM.Enabled := True;

 EditIN.Enabled := True;

 EditIO.Enabled := True;

 EditIP.Enabled := True;

 EditJL.Enabled := True;

 EditJM.Enabled := True;

 EditJN.Enabled := True;

 EditJO.Enabled := True;

 EditJP.Enabled := True;

 EditKL.Enabled := True;

 EditKM.Enabled := True;

 EditKN.Enabled := True;

 EditKO.Enabled := True;

 EditKP.Enabled := True;

 EditLZ.Enabled := True;

 EditMZ.Enabled := True;

 EditNZ.Enabled := True;

 EditOZ.Enabled := True;

 EditPZ.Enabled := True;

 LineAB.Visible := True;

 LineAC.Visible := True;

 LineAD.Visible := True;

 LineAE.Visible := True;

 LineAF.Visible := True;

 LineBG.Visible := True;

 LineBH.Visible := True;

 LineBI.Visible := True;

 LineBJ.Visible := True;

 LineBK.Visible := True;

 LineCG.Visible := True;

 LineCH.Visible := True;

 LineCI.Visible := True;

 LineCJ.Visible := True;

 LineCK.Visible := True;

 LineDG.Visible := True;

 LineDH.Visible := True;

 LineDI.Visible := True;

 LineDJ.Visible := True;

 LineDK.Visible := True;

 LineEG.Visible := True;

 LineEH.Visible := True;

 LineEI.Visible := True;

 LineEJ.Visible := True;

 LineEK.Visible := True;

 LineFG.Visible := True;

 LineFH.Visible := True;

 LineFI.Visible := True;

 LineFJ.Visible := True;

 LineFK.Visible := True;

 LineGL.Visible := True;

 LineGM.Visible := True;

 LineGN.Visible := True;

 LineGO.Visible := True;

 LineGP.Visible := True;

 LineHL.Visible := True;

 LineHM.Visible := True;

 LineHN.Visible := True;

 LineHO.Visible := True;

 LineHP.Visible := True;

 LineIL.Visible := True;

 LineIM.Visible := True;

 LineIN.Visible := True;

 LineIO.Visible := True;

 LineIP.Visible := True;

 LineJL.Visible := True;

 LineJM.Visible := True;

 LineJN.Visible := True;

 LineJO.Visible := True;

 LineJP.Visible := True;

 LineKL.Visible := True;

 LineKM.Visible := True;

 LineKN.Visible := True;

 LineKO.Visible := True;

 LineKP.Visible := True;

 LineLZ.Visible := True;

 LineMZ.Visible := True;

 LineNZ.Visible := True;

 LineOZ.Visible := True;

 LinePZ.Visible := True;

 Line2AB.Visible := False;

 Line2AC.Visible := False;

 Line2AD.Visible := False;

 Line2AE.Visible := False;

 Line2AF.Visible := False;

 Line2BG.Visible := False;

 Line2BH.Visible := False;

 Line2BI.Visible := False;

 Line2BJ.Visible := False;

 Line2BK.Visible := False;

 Line2CG.Visible := False;

 Line2CH.Visible := False;

 Line2CI.Visible := False;

 Line2CJ.Visible := False;

 Line2CK.Visible := False;

 Line2DG.Visible := False;

 Line2DH.Visible := False;

 Line2DI.Visible := False;

 Line2DJ.Visible := False;

 Line2DK.Visible := False;

 Line2EG.Visible := False;

 Line2EH.Visible := False;

 Line2EI.Visible := False;

 Line2EJ.Visible := False;

 Line2EK.Visible := False;

 Line2FG.Visible := False;

 Line2FH.Visible := False;

 Line2FI.Visible := False;

 Line2FJ.Visible := False;

 Line2FK.Visible := False;

 Line2GL.Visible := False;

 Line2GM.Visible := False;

 Line2GN.Visible := False;

 Line2GO.Visible := False;

 Line2GP.Visible := False;

 Line2HL.Visible := False;

 Line2HM.Visible := False;

 Line2HN.Visible := False;

 Line2HO.Visible := False;

 Line2HP.Visible := False;

 Line2IL.Visible := False;

 Line2IM.Visible := False;

 Line2IN.Visible := False;

 Line2IO.Visible := False;

 Line2IP.Visible := False;

 Line2JL.Visible := False;

 Line2JM.Visible := False;

 Line2JN.Visible := False;

 Line2JO.Visible := False;

 Line2JP.Visible := False;

 Line2KL.Visible := False;

 Line2KM.Visible := False;

 Line2KN.Visible := False;

 Line2KO.Visible := False;

 Line2KP.Visible := False;

 Line2LZ.Visible := False;

 Line2MZ.Visible := False;

 Line2NZ.Visible := False;

 Line2OZ.Visible := False;

 Line2PZ.Visible := False;

 muncul.Caption:='Hapus Semua!';

 end;

end;

procedure TCari\_jarak.EditABChange(Sender: TObject);

begin

 if EditAB.Text='' then EditAB.Text:='0';

 if EditAC.Text='' then EditAC.Text:='0';

 if EditAD.Text='' then EditAD.Text:='0';

 if EditAE.Text='' then EditAE.Text:='0';

 if EditAF.Text='' then EditAF.Text:='0';

 if EditBG.Text='' then EditBG.Text:='0';

 if EditBH.Text='' then EditBH.Text:='0';

 if EditBI.Text='' then EditBI.Text:='0';

 if EditBJ.Text='' then EditBJ.Text:='0';

 if EditBK.Text='' then EditBK.Text:='0';

 if EditCG.Text='' then EditCG.Text:='0';

 if EditCH.Text='' then EditCH.Text:='0';

 if EditCI.Text='' then EditCI.Text:='0';

 if EditCJ.Text='' then EditCJ.Text:='0';

 if EditCK.Text='' then EditCK.Text:='0';

 if EditDG.Text='' then EditDG.Text:='0';

 if EditDH.Text='' then EditDH.Text:='0';

 if EditDI.Text='' then EditDI.Text:='0';

 if EditDJ.Text='' then EditDJ.Text:='0';

 if EditDK.Text='' then EditDK.Text:='0';

 if EditEG.Text='' then EditEG.Text:='0';

 if EditEH.Text='' then EditEH.Text:='0';

 if EditEI.Text='' then EditEI.Text:='0';

 if EditEJ.Text='' then EditEJ.Text:='0';

 if EditEK.Text='' then EditEK.Text:='0';

 if EditFG.Text='' then EditFG.Text:='0';

 if EditFH.Text='' then EditFH.Text:='0';

 if EditFI.Text='' then EditFI.Text:='0';

 if EditFJ.Text='' then EditFJ.Text:='0';

 if EditFK.Text='' then EditFK.Text:='0';

 if EditGL.Text='' then EditGL.Text:='0';

 if EditGM.Text='' then EditGM.Text:='0';

 if EditGN.Text='' then EditGN.Text:='0';

 if EditGO.Text='' then EditGO.Text:='0';

 if EditGP.Text='' then EditGP.Text:='0';

 if EditHL.Text='' then EditHL.Text:='0';

 if EditHM.Text='' then EditHM.Text:='0';

 if EditHN.Text='' then EditHN.Text:='0';

 if EditHO.Text='' then EditHO.Text:='0';

 if EditHP.Text='' then EditHP.Text:='0';

 if EditIL.Text='' then EditIL.Text:='0';

 if EditIM.Text='' then EditIM.Text:='0';

 if EditIN.Text='' then EditIN.Text:='0';

 if EditIO.Text='' then EditIO.Text:='0';

 if EditIP.Text='' then EditIP.Text:='0';

 if EditJL.Text='' then EditJL.Text:='0';

 if EditJM.Text='' then EditJM.Text:='0';

 if EditJN.Text='' then EditJN.Text:='0';

 if EditJO.Text='' then EditJO.Text:='0';

 if EditJP.Text='' then EditJP.Text:='0';

 if EditKL.Text='' then EditKL.Text:='0';

 if EditKM.Text='' then EditKM.Text:='0';

 if EditKN.Text='' then EditKN.Text:='0';

 if EditKO.Text='' then EditKO.Text:='0';

 if EditKP.Text='' then EditKP.Text:='0';

 if EditLZ.Text='' then EditLZ.Text:='0';

 if EditMZ.Text='' then EditMZ.Text:='0';

 if EditNZ.Text='' then EditNZ.Text:='0';

 if EditOZ.Text='' then EditOZ.Text:='0';

 if EditPZ.Text='' then EditPZ.Text:='0';

end;

1. ***Source Code* Contoh Pembatasan Karakter Masukan**

procedure TCari\_jarak.EditABKeyPress(Sender: TObject; var Key: char);

begin

 if not (Key in ['0'..'9',#8]) then

 Key:=#0;

end;

1. ***Source Code* Menuju Halaman Pulau Jawa**

procedure TCari\_jarak.JawaClick(Sender: TObject);

begin

 Cari\_jarak.Visible:=False;

 Cari\_Jarak\_Jawa.ShowModal;

end;

1. ***Source Code* Menuju Halaman Pulau Sumatera**

procedure TCari\_jarak.SumateraClick(Sender: TObject);

begin

 Cari\_jarak.Visible:=False;

 Cari\_Jarak\_Sumatera.ShowModal;

end;

1. ***Source Code* Proses Halaman Pulau Jawa**

procedure TCari\_Jarak\_Jawa.Button1Click(Sender: TObject);

begin

 garis[1,1,1]:=32.6; //Merak-Serang

 garis[2,1,1]:=108; //Serang-Bogor

 garis[2,2,1]:=87.4; //Serang-Jakarta

 garis[3,1,1]:=123; //Bogor-Bandung

 garis[3,1,2]:=147; //Jakarta-Bandung

 garis[3,2,1]:=274; //Bogor-Cirebon

 garis[3,2,2]:=237; //Jakarta-Cirebon

 garis[4,1,1]:=247; //Bandung-Purwokerto

 garis[4,1,2]:=145; //Cirebon-Purwokerto

 garis[4,2,1]:=211; //Bandung-Tegal

 garis[4,2,2]:=71.1; //Cirebon-Tegal

 garis[5,1,1]:=158; //Purwokerto-Yogyakarta

 garis[5,1,2]:=234; //Tegal-Yogyakarta

 garis[5,2,1]:=127; //Purwokerto-Magelang

 garis[5,2,2]:=190; //Tegal-Magelang

 garis[5,3,1]:=177; //Purwokerto-Semarang

 garis[5,3,2]:=163; //Tegal-Semarang

 garis[6,1,1]:=326; //Yogyakarta-Malang

 garis[6,1,2]:=366; //Magelang-Malang

 garis[6,1,3]:=329; //Semarang-Malang

 garis[6,2,1]:=325; //Yogyakarta-Surabaya

 garis[6,2,2]:=365; //Magelang-Surabaya

 garis[6,2,3]:=316; //Semarang-Surabaya

 //Lapis 1

 for i:=1 to 2 do

 titik[1,i,1]:=garis[2,i,1]+garis[1,1,1];

 for i:=1 to 2 do

 min[1,i]:=titik[1,i,1];

 //Lapis 2

 for i:=1 to 2 do

 for j:= 1 to 2 do

 titik[2,i,j]:=garis[3,i,j]+min[1,j];

 for i:=1 to 2 do

 begin

 min[2,i]:=titik[2,i,1];

 if min[2,i]>titik[2,i,2] then min[2,i]:=titik[2,i,2];

 end;

 //Lapis 3

 for i:=1 to 2 do

 for j:= 1 to 2 do

 titik[3,i,j]:=garis[4,i,j]+min[2,j];

 for i:=1 to 2 do

 begin

 min[3,i]:=titik[3,i,1];

 if min[3,i]>titik[3,i,2] then min[3,i]:=titik[3,i,2];

 end;

 //Lapis 4

 for i:=1 to 3 do

 for j:= 1 to 2 do

 titik[4,i,j]:=garis[5,i,j]+min[3,j];

 for i:=1 to 3 do

 begin

 min[4,i]:=titik[4,i,1];

 if min[4,i]>titik[4,i,2] then min[4,i]:=titik[4,i,2];

 end;

 //Lapis 5

 for i:=1 to 2 do

 for j:= 1 to 3 do

 titik[5,i,j]:=garis[6,i,j]+min[4,j];

 for i:=1 to 2 do

 begin

 min[5,i]:=titik[5,i,1];

 for j:=2 to 3 do

 if min[5,i]>titik[5,i,j] then min[5,i]:=titik[5,i,j];

 end;

 if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Serang')) or ((KotaAwal.Text='Serang') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = 32.6 Km';

 mrk\_srg.Visible:=True;

 label22.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Bogor')) or ((KotaAwal.Text='Bogor') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[1,1])+' Km';

 mrk\_srg.Visible:=True;

 srg\_bgr.Visible:=True;

 label22.Font.Style:=[fsBold];

 label20.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Jakarta')) or ((KotaAwal.Text='Jakarta') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[1,2])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Bandung')) or ((KotaAwal.Text='Bandung') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[2,1])+' Km';

 mrk\_srg.Visible:=True;

 srg\_bgr.Visible:=True;

 bgr\_bdg.Visible:=True;

 label22.Font.Style:=[fsBold];

 label20.Font.Style:=[fsBold];

 label16.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Cirebon')) or ((KotaAwal.Text='Cirebon') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[2,2])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Purwokerto')) or ((KotaAwal.Text='Purwokerto') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[3,1])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_pkt.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label14.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Tegal')) or ((KotaAwal.Text='Tegal') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[3,2])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_tgl.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label15.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Yogyakarta')) or ((KotaAwal.Text='Yogyakarta') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,1])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_pkt.Visible:=True;

 pkt\_yk.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label14.Font.Style:=[fsBold];

 label6.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Magelang')) or ((KotaAwal.Text='Magelang') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,2])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_tgl.Visible:=True;

 tgl\_mgl.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label15.Font.Style:=[fsBold];

 label10.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Semarang')) or ((KotaAwal.Text='Semarang') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,3])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_tgl.Visible:=True;

 tgl\_smg.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label15.Font.Style:=[fsBold];

 label11.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Malang')) or ((KotaAwal.Text='Malang') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[5,1])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_tgl.Visible:=True;

 tgl\_smg.Visible:=True;

 smg\_mlg.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label15.Font.Style:=[fsBold];

 label11.Font.Style:=[fsBold];

 label4.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Surabaya')) or ((KotaAwal.Text='Surabaya') and (EditTujuan.Text='Merak')) then

 begin

 Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[5,2])+' Km';

 mrk\_srg.Visible:=True;

 srg\_jkt.Visible:=True;

 jkt\_crb.Visible:=True;

 crb\_tgl.Visible:=True;

 tgl\_smg.Visible:=True;

 smg\_sby.Visible:=True;

 label22.Font.Style:=[fsBold];

 label21.Font.Style:=[fsBold];

 label19.Font.Style:=[fsBold];

 label15.Font.Style:=[fsBold];

 label11.Font.Style:=[fsBold];

 label5.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Merak')) or

 ((KotaAwal.Text='Serang') and (EditTujuan.Text='Serang')) or

 ((KotaAwal.Text='Jakarta') and (EditTujuan.Text='Jakarta')) or

 ((KotaAwal.Text='Bogor') and (EditTujuan.Text='Bogor')) or

 ((KotaAwal.Text='Cirebon') and (EditTujuan.Text='Cirebon')) or

 ((KotaAwal.Text='Bandung') and (EditTujuan.Text='Bandung')) or

 ((KotaAwal.Text='Tegal') and (EditTujuan.Text='Tegal')) or

 ((KotaAwal.Text='Purwokerto') and (EditTujuan.Text='Purwokerto')) or

 ((KotaAwal.Text='Semarang') and (EditTujuan.Text='Semarang')) or

 ((KotaAwal.Text='Magelang') and (EditTujuan.Text='Magelang')) or

 ((KotaAwal.Text='Yogyakarta') and (EditTujuan.Text='Yogyakarta')) or

 ((KotaAwal.Text='Surabaya') and (EditTujuan.Text='Surabaya')) or

 ((KotaAwal.Text='Malang') and (EditTujuan.Text='Malang')) then

 begin

 ShowMessage('Maaf, kota awal yang Anda pilih sama dengan kota tujuan.');

 Jarak.Caption:='Jarak terpendek = 0 Km';

 end;

 Jarak.Visible:=True;

end;

1. ***Source Code* Proses Halaman Pulau Jawa**

procedure TCari\_Jarak\_Sumatera.AwalClick(Sender: TObject);

begin

 Cari\_Jarak\_Sumatera.Close;

end;

procedure TCari\_Jarak\_Sumatera.Button1Click(Sender: TObject);

begin

 garis[1]:=579; //BandarLampung-Bengkulu

 garis[2]:=379; //BandarLampung-Palembang (Lewat Lintas Timur)

 garis[3]:=632; //BandarLampung-Palembang (Lewat Lintas Barat)

 garis[4]:=552; //Bengkulu-Padang

 garis[5]:=432; //Palembang-Jambi

 garis[6]:=353; //Padang-PekanBaru

 garis[7]:=411; //Jambi-PekanBaru

 garis[8]:=777; //PekanBaru-Medan

 garis[9]:=605; //Medan\_BandaAceh

 jambi1:=garis[2]+garis[5]; //Ke Jambi lewat lintas Timur

 jambi2:=garis[3]+garis[5]; //Ke Jambi Lewat lintas Barat

 padang:=garis[1]+garis[4];

 pekanbaru1:=padang+garis[6]; //Ke Pekanbaru lewat Padang

 pekanbaru2:=jambi1+garis[7]; //Ke Pekanbaru lewat Jambi

 medan1:=pekanbaru1+garis[8]; //Ke Medan lewat Padang

 medan2:=pekanbaru2+garis[8]; //Ke Medan lewat Jambi

 banda\_aceh1:=medan1+garis[9]; //Ke Banda Aceh lewat Padang

 banda\_aceh2:=medan2+garis[9]; //Ke Banda Aceh lewat Jambi

 if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Palembang')) or ((KotaAwal.Text='Palembang') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 if garis[2]<garis[3] then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(garis[2])+' Km';

 jarak.Visible:=True;

 bdl\_plg.Visible:=True;

 label1.Font.Style:=[fsBold];

 end

 else begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(garis[3])+' Km';

 jarak.Visible:=True;

 end;

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Bengkulu')) or ((KotaAwal.Text='Bengkulu') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(garis[1])+' Km';

 jarak.Visible:=True;

 bdl\_bkl.Visible:=True;

 label3.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Jambi')) or ((KotaAwal.Text='Jambi') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 if jambi1<jambi2 then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(jambi1)+' Km';

 jarak.Visible:=True;

 bdl\_plg.Visible:=True;

 plg\_jmb.Visible:=True;

 label1.Font.Style:=[fsBold];

 label4.Font.Style:=[fsBold];

 end

 else begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(jambi2)+' Km';

 jarak.Visible:=True;

 end;

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Padang')) or ((KotaAwal.Text='Padang') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(padang)+' Km';

 jarak.Visible:=True;

 bdl\_bkl.Visible:=True;

 bkl\_pdg.Visible:=True;

 label3.Font.Style:=[fsBold];

 label5.Font.Style:=[fsBold];

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Pekanbaru')) or ((KotaAwal.Text='Pekanbaru') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 if pekanbaru1<pekanbaru2 then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(pekanbaru1)+' Km';

 jarak.Visible:=True;

 end

 else begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(pekanbaru2)+' Km';

 jarak.Visible:=True;

 bdl\_plg.Visible:=True;

 plg\_jmb.Visible:=True;

 jmb\_pkb.Visible:=True;

 label1.Font.Style:=[fsBold];

 label4.Font.Style:=[fsBold];

 label6.Font.Style:=[fsBold];

 end;

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Medan')) or ((KotaAwal.Text='Medan') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 if medan1<medan2 then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(medan1)+' Km';

 jarak.Visible:=True;

 end

 else begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(medan2)+' Km';

 jarak.Visible:=True;

 bdl\_plg.Visible:=True;

 plg\_jmb.Visible:=True;

 jmb\_pkb.Visible:=True;

 pkb\_mdn.Visible:=True;

 label1.Font.Style:=[fsBold];

 label4.Font.Style:=[fsBold];

 label6.Font.Style:=[fsBold];

 label8.Font.Style:=[fsBold];

 end;

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Banda Aceh')) or ((KotaAwal.Text='Banda Aceh') and (EditTujuan.Text='Bandar Lampung')) then

 begin

 if banda\_aceh1<banda\_aceh2 then

 begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(banda\_aceh1)+' Km';

 jarak.Visible:=True;

 end

 else begin

 jarak.Caption:='Jarak Minimum = '+IntToStr(banda\_aceh2)+' Km';

 jarak.Visible:=True;

 bdl\_plg.Visible:=True;

 plg\_jmb.Visible:=True;

 jmb\_pkb.Visible:=True;

 pkb\_mdn.Visible:=True;

 mdn\_bda.Visible:=True;

 label1.Font.Style:=[fsBold];

 label4.Font.Style:=[fsBold];

 label6.Font.Style:=[fsBold];

 label8.Font.Style:=[fsBold];

 label9.Font.Style:=[fsBold];

 end;

 end

 else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Bandar Lampung')) or

 ((KotaAwal.Text='Palembang') and (EditTujuan.Text='Palembang')) or

 ((KotaAwal.Text='Bengkulu') and (EditTujuan.Text='Bengkulu')) or

 ((KotaAwal.Text='Jambi') and (EditTujuan.Text='Jambi')) or

 ((KotaAwal.Text='Padang') and (EditTujuan.Text='Padang')) or

 ((KotaAwal.Text='Pekanbaru') and (EditTujuan.Text='Pekanbaru')) or

 ((KotaAwal.Text='Medan') and (EditTujuan.Text='Medan')) or

 ((KotaAwal.Text='Banda Aceh') and (EditTujuan.Text='Banda Aceh')) then

 begin

 ShowMessage('Maaf, kota awal yang Anda pilih sama dengan kota tujuan.');

 Jarak.Caption:='Jarak Minimum = 0 Km';

 Jarak.Visible:=True;

 end;

end;