

LAMPIRAN B

Program pada Delphi 7

B-1

Listing Program pada Delphi 7

```
unit Unit1;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, ExtCtrls, Buttons, Menus, ComCtrls, Grids, DBGrids,
  DB, DBTables;

type
  TForm1 = class(TForm)
    timer_terima: TTimer;
    timer_data: TTimer;
    delay_data: TTimer;
    delay_tampil: TTimer;
    delay_feedback: TTimer;
    MainMenu1: TMainMenu;
    Exit1: TMenuItem;
    Pinjam1: TMenuItem;
    Registrasi1: TMenuItem;
    data1: TMenuItem;
    Log1: TMenuItem;
    Log2: TMenuItem;
    Exit2: TMenuItem;
    page: TPageControl;
    Pinjam: TTabSheet;
    Button7: TButton;
    Memo1: TMemo;
    Label8: TLabel;
    Label4: TLabel;
    Label5: TLabel;
    Label2: TLabel;
    Label1: TLabel;
    nomor: TLabel;
    Label3: TLabel;
    Label10: TLabel;
    Label11: TLabel;
    Utama: TTabSheet;
    Registrasi: TTabSheet;
    Member: TTabSheet;
    Log: TTabSheet;
    Label6: TLabel;
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Label7: TLabel;
Label9: TLabel;
nama: TEdit;
Label12: TLabel;
alamat: TEdit;
no_telp: TEdit;
Label13: TLabel;
btnsimpan: TButton;
DBmember: TDBGrid;
DBlog: TDBGrid;
refresh: TButton;
btnPinjam: TButton;
BtnKembali: TButton;
ID_RFID: TEdit;
Button8: TButton;
Timer1: TTimer;
Label14: TLabel;
acak_loker: TTimer;
procedure out_control(value:byte);
procedure out_data(value:byte);
function in_data:byte;
function in_status:byte;
function in_control:byte;
procedure cek_key(sender: tobject);
procedure acak(sender: tobject);
procedure FormCreate(Sender: TObject);
procedure Button7Click(Sender: TObject);
procedure timer_terimaTimer(Sender: TObject);
procedure timer_dataTimer(Sender: TObject);
procedure delay_dataTimer(Sender: TObject);
procedure delay_tampilTimer(Sender: TObject);
procedure buka_loker(sender: TObject);
procedure btnacakClick(Sender: TObject);
procedure Button10Click(Sender: TObject);
procedure delay_feedbackTimer(Sender: TObject);
procedure Exit2Click(Sender: TObject);
procedure Pinjam1Click(Sender: TObject);
procedure Registrasi1Click(Sender: TObject);
procedure Log1Click(Sender: TObject);
procedure Log2Click(Sender: TObject);
procedure cariChange(Sender: TObject);
procedure btnsimpanClick(Sender: TObject);
procedure Button8Click(Sender: TObject);
procedure refreshClick(Sender: TObject);
procedure btnPinjamClick(Sender: TObject);
procedure Timer1Timer(Sender: TObject);

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    procedure BtnKembaliClick(Sender: TObject);
    procedure acak_lokerTimer(Sender: TObject);
    procedure balik_loker(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    Form1: TForm1;
    panjang_data: integer = 0;
    i : integer;
    loker : integer = 0;
    loker1 : integer = 0;
    loker2 : integer = 0;
    loker3 : integer = 0;
    loker4 : integer = 0;
    loker5 : integer = 0;
    loker6 : integer = 0;
    buf_nama : string = "";
    buf_loker : string;

implementation
uses u_modul;

{$R *.dfm}

function tform1.in_data:byte;
begin
asm
mov dx,$378
in al,dx
mov @result,al
end
end;

function tform1.in_status:byte;
begin
asm
mov dx,$379
in al,dx
mov @result,al
end
end;

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procedure TForm1.out_data(value:byte);
begin
asm
mov dx,$378
mov al,value
out dx,al
end
end;

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procedure TForm1.out_control(value:byte);
begin
asm
mov dx,$37A
mov al,value
out dx,al
end
end;

```

```

function TForm1.in_control:byte;
begin
asm
mov dx,$37A
in al,dx
mov @result,al
end
end;

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procedure TForm1.cek_key(Sender: TObject);
begin
if (length(label3.caption) = 12) then
begin
out_control(58);
memo1.Text := memo1.Text + label3.Caption + ' ';

with dm.Qproses do
begin
close;
sql.Clear;
sql.Add('select nama from registrasi');
sql.Add('where id_rfid like :id');
prepare;
parambyname('id').AsString := label3.Caption;
open;
nomor.Caption := fields[0].AsString;
end;
end;

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        end
        else
        begin
            out_control(58);

        end;
end;

procedure TForm1.FormCreate(Sender: TObject);
begin

    page.ActivePage := utama;
    Memo1.Text := ' --- ID Card --- ' ;
    out_control(58);
end;

procedure TForm1.Button7Click(Sender: TObject);
begin
    timer_terima.Enabled := true;
    out_control(59);
    label3.Caption := "";
    btnpinjam.Enabled := false;
    btnkembali.Enabled := false;
    nomor.Caption := "";
end;

procedure TForm1.timer_terimaTimer(Sender: TObject);
var status : string;
begin
    out_control(58);
    label8.Caption := 'Ready';
    status := inttostr(in_status and 8);
    if (strtoint(status) = 0) then
    begin
        panjang_data := 0;
        timer_data.Enabled := true;
        timer_terima.Enabled := false;
        label3.Caption := "";
        delay_tampil.Enabled := false;
        label8.Caption := 'On Process';
    end;
end;

procedure TForm1.timer_dataTimer(Sender: TObject);
begin
    out_control(58);

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timer_terima.Enabled := false;
timer_data.Enabled := false;
if ((panjang_data = 12) ) then
begin
    memo1.Text := memo1.Text + label3.Caption + ' ';
    acak(sender);
    with dm.Qproses do
        begin
            close;
            sql.Clear;
            sql.Add('select nama from registrasi');
            sql.Add('where id_rfid like :id');
            prepare;
            parambyname('id').AsString := label3.Caption;
            open;
            nomor.Caption := fields[0].AsString;
            if (nomor.Caption = "") then
                begin
                    ShowMessage('MAAF KARTU ANDA TIDAK TERDAFTAR');
                end
            else
                begin
                    with
                    dm.Qproses do
                        begin
                            close;
                            sql.Clear;
                            sql.Add('select nama from pakai_loker');
                            sql.Add('where id_rfid like :id');
                            prepare;
                            parambyname('id').AsString := label3.Caption;
                            open;
                            buf_nama := fields[0].AsString;
                            if (buf_nama = "") then
                                begin
                                    btnpinjam.Enabled := true;

                                end
                            else
                                begin
                                    btnkembali.Enabled := true;
                                end;
                            end;
                        end;
                end;
            end;
        end;
    end;
end;
end;

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end
else
begin
    delay_data.Enabled := true;
end;

end;

procedure TForm1.delay_dataTimer(Sender: TObject);
var int2ascii : string;
begin
    out_control(59);
    panjang_data:= panjang_data + 1;
    int2ascii := chr(strtoint('$' + inttohex(in_data,2)));
    label3.caption := label3.caption + int2ascii;
    id_rfid.Text := label3.Caption;
    timer_data.Enabled := true;
    delay_data.Enabled := false;
end;

procedure TForm1.delay_tampilTimer(Sender: TObject);
begin
    label3.Caption := "";
    id_rfid.Text := label3.Caption;
    delay_tampil.Enabled := false;
end;

procedure TForm1.btnacakClick(Sender: TObject);
begin
    out_control(58);
end;

procedure TForm1.Button10Click(Sender: TObject);
begin
    out_control(59);
end;

procedure TForm1.delay_feedbackTimer(Sender: TObject);
begin
    out_control(58);
end;

procedure TForm1.Exit2Click(Sender: TObject);
begin
    Application.Terminate;
end;

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procedure TForm1.Pinjam1Click(Sender: TObject);
begin
    page.ActivePage := pinjam;
end;

procedure TForm1.Registrasi1Click(Sender: TObject);
begin
    page.ActivePage := registrasi;
end;

procedure TForm1.Log1Click(Sender: TObject);
begin
    page.ActivePage := member;
    with dm.Qproses Do
    begin
        close;
        sql.clear;
        sql.Add('select id_rfid, nama, alamat, no_telp, tgl_daftar from registrasi');
        open;
    end;
end;

procedure TForm1.Log2Click(Sender: TObject);
begin
    page.ActivePage := log;
    with dm.Qproses Do
    begin
        close;
        sql.clear;
        sql.Add('select id_rfid, loker, log_in, log_out from log_in_out');
        open;
    end;
end;

procedure TForm1.cariChange(Sender: TObject);
begin
    { with dm.Qproses do
    begin
        close;
        sql.Clear;
        sql.add('select ID_rfid, nama, alamat, no_telp from registrasi');
        if (search.ItemIndex = 0) then
        begin
            sql.Add('where nama like :nm');
            prepare;
        end;
    end;
}

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        parambyname('nm').AsString := '%' + cari.Text + '%';
    end
    else if (search.ItemIndex = 1) then
    begin
        sql.Add('where id_rfid like :id');
        prepare;
        parambyname('id').AsString := '%' + cari.Text + '%';
    end;
end;}
end;

procedure TForm1.btnsimpanClick(Sender: TObject);
begin
    with dm.Qdata do
    begin
        close;
        sql.Add('Insert Into Registrasi(id_rfid, nama, alamat, no_telp)' +
            'values(:id, :nm, :al, :nt)');
        prepare;
        parambyname('id').AsString := id_rfid.Text;
        parambyname('nm').AsString := nama.Text;
        parambyname('al').AsString := alamat.Text;
        parambyname('nt').AsString := no_telp.Text;
        execsql;
    end;
    dm.trrfid.Commit;
    id_rfid.Clear;
    nama.Clear;
    label3.Caption := "";
    alamat.Clear;
    no_telp.Clear;
    out_control(59);
    timer_terima.Enabled := true;
end;

procedure TForm1.Button8Click(Sender: TObject);
begin
    timer_terima.Enabled := true;
    out_control(59);
    label3.Caption := "";
    id_rfid.Text := "";
end;

procedure TForm1.refreshClick(Sender: TObject);
begin
    with dm.Qproses Do

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begin
  close;
  sql.clear;
  sql.Add('select id_rfid, loker, log_in, log_out from log_in_out');
  open;
end;
end;

procedure TForm1.btnPinjamClick(Sender: TObject);
begin
  if (id_rfid.Text <> "") then
  begin
    with dm.Qdata do
    begin
      close;
      sql.Clear;
      sql.Add('insert into pakai_loker(id_rfid, nama, loker, log_in)' +
        'values(:id, :nm, :lk, :in)');
      prepare;
      parambyname('id').AsString := id_rfid.Text;
      parambyname('nm').AsString := trim(nomor.Caption);
      parambyname('lk').AsString := inttostr(loker);
      parambyname('in').AsString := timetostr(gettime());
      execsql;
    end;
    dm.trrfid.Commit;
    end;
    buka_loker(sender);
    btnpinjam.Enabled := false;
  end;

procedure TForm1.Timer1Timer(Sender: TObject);
begin
  label14.Caption := timetostr(gettime());
end;

procedure TForm1.BtnKembaliClick(Sender: TObject);
var buf_time : ttime;
begin
  if (label3.Caption <> "") then
  begin
    with dm.Qdata do
    begin
      close;
      sql.Clear;
      sql.Add('select nama, loker, log_in from pakai_loker');

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    sql.Add('where id_rfid like :id');
    prepare;
    parambyname('id').AsString := label3.Caption;
    open;
    nomor.Caption := fields[0].AsString;
    label11.Caption := fields[1].AsString;
    buf_time := fields[2].AsDateTime;
end;

with dm.Qproses do
begin
    close;
    sql.Clear;
    sql.Add('delete from pakai_loker');
    sql.Add('where id_rfid =:id');
    prepare;
    parambyname('id').AsString := id_rfid.Text;
    execsql;
end;

dm.trrfid.Commit;

with dm.Qproses do
begin
    close;
    sql.Clear;
    sql.Add('insert into log_in_out(id_rfid, loker, log_in, log_out)'+
        'values(:id, :lk, :in, :ot)');
    prepare;
    parambyname('id').AsString := trim(id_rfid.Text);
    parambyname('lk').AsString := trim(label11.Caption);
    i := strtoint(trim(label11.Caption));
    parambyname('in').AsTime := buf_time;
    parambyname('ot').AsString := trim(timetostr(gettime()));

    execsql;
end;
dm.trrfid.Commit;
end;
balik_loker(sender);
nomor.Caption := "";
label3.Caption := "";
btnkembali.Enabled := false;
out_control(59);
timer_terima.Enabled := true;
btnpinjam.Enabled := false;

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    loker := strtoint(trim(label11.caption));
    buka_loker(sender);

end;

procedure TForm1.acak(Sender: TObject);
begin
    if ((loker1 = 1)and(loker2 = 1)and(loker3 = 1)and(loker4 = 1)and(loker5 = 1)and(loker6 = 1)) then
    begin
        showmessage('MAAF LOKER SUDAH PENUH');
        loker := 0;
    end
    else
    begin
        acak_loker.Enabled := true;
    end;
end;

end;

procedure TForm1.balik_loker(Sender: TObject);
begin
    buf_loker := 'loker' + inttostr(i);
    if (buf_loker = 'loker1') then
    begin
        loker1 := 0;
        out_control(41);
        timer_terima.Enabled := true;
    end
    else if (buf_loker = 'loker2') then
    begin
        loker2 := 0;
        out_control(47);
        timer_terima.Enabled := true;
    end
    else if (buf_loker = 'loker3') then
    begin
        loker3 := 0;
        out_control(45);
        timer_terima.Enabled := true;
    end
    else if (buf_loker = 'loker4') then
    begin
        loker4 := 0;
        out_control(35);
        timer_terima.Enabled := true;
    end
end

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else if (buf_loker = 'loker5') then
begin
    loker5 := 0;
    out_control(49);
    timer_terima.Enabled := true;
end
else if (buf_loker = 'loker6') then
begin
    loker6 := 0;
    out_control(39);
    timer_terima.Enabled := true;
end
end;

procedure TForm1.buka_loker(sender: TObject);
begin
    if (loker = 1) then
    begin
        out_control(41);
        timer_terima.Enabled := true;
    end
    else if (loker = 2) then
    begin
        out_control(47);
        timer_terima.Enabled := true;
    end
    else if (loker = 3) then
    begin
        out_control(45);
        timer_terima.Enabled := true;
    end
    else if (loker = 4) then
    begin
        out_control(35);
        timer_terima.Enabled := true;
    end
    else if (loker = 5) then
    begin
        out_control(49);
        timer_terima.Enabled := true;
    end
    else if (loker = 6) then
    begin
        out_control(39);
        timer_terima.Enabled := true;
    end
end;

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end;

procedure TForm1.acak_lokerTimer(Sender: TObject);

begin
    randomize;
    i := random(7);
    if (i <> 0) then
    begin
        buf_loker := 'loker' + inttostr(i);
        if ((buf_loker = 'loker1')and(loker1 = 0)) then
        begin
            loker := i;
            acak_loker.Enabled := false;
            loker1 := 1;
            label11.Caption := '1';
        end
        else if ((buf_loker = 'loker2')and(loker2 = 0)) then
        begin
            loker := i;
            acak_loker.Enabled := false;
            loker2 := 1;
            label11.Caption := '2';
        end
        else if ((buf_loker = 'loker3')and(loker3 = 0)) then
        begin
            loker := i;
            acak_loker.Enabled := false;
            loker3 := 1;
            label11.Caption := '3';
        end
        else if ((buf_loker = 'loker4')and(loker4 = 0)) then
        begin
            loker := i;
            acak_loker.Enabled := false;
            loker4 := 1;
            label11.Caption := '4';
        end
        else if ((buf_loker = 'loker5')and(loker5 = 0)) then
        begin
            loker := i;
            acak_loker.Enabled := false;
            loker5 := 1;
            label11.Caption := '5';
        end
        else if ((buf_loker = 'loker6')and(loker6 = 0)) then

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```
begin
  loker := i;
  acak_loker.Enabled := false;
  loker6 := 1;
  label11.Caption := '6';
end;
end
end;
end.
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