

## LAMPIRAN

### *unit Unit\_Utama;*

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, Buttons, ExtCtrls, ComCtrls;

type

```
TForm_Utama = class(TForm)
  Timer1: TTimer;
  Label1: TLabel;
  Panel1: TPanel;
  Panel2: TPanel;
  Panel3: TPanel;
  SBClose: TSpeedButton;
  SB_Setting: TSpeedButton;
  SB_Simulasi: TSpeedButton;
  StatusBar1: TStatusBar;
  Timer2: TTimer;
  SB_About: TSpeedButton;
  SpeedButton1: TSpeedButton;
  procedure SBCloseClick(Sender: TObject);
  procedure FormCreate(Sender: TObject);
  procedure SB_SettingClick(Sender: TObject);
  procedure Timer1Timer(Sender: TObject);
  procedure FormActivate(Sender: TObject);
  procedure FormDeactivate(Sender: TObject);
  procedure SB_SimulasiClick(Sender: TObject);
  procedure Timer2Timer(Sender: TObject);
  procedure SB_AboutClick(Sender: TObject);
  procedure SpeedButton1Click(Sender: TObject);
```

private

{ Private declarations }

public

{ Public declarations }

end;

const

LPT=\$378;

var

Form\_Utama: TForm\_Utama;

D: array[0..2] of byte;

Data: byte;

s1,s2,s3,S: string;

implementation

uses Unit\_Setting, Unit\_Simulasi, Unit\_About, mainform;

{ \$R \*.dfm }

```
procedure TForm_Utama.SBCloseClick(Sender: TObject);
begin
  Close;
end;
```

```
procedure TForm_Utama.FormCreate(Sender: TObject);
begin
  D[0]:=0; D[1]:=0; D[2]:=0;
  Data:=0;
  Self.WindowState:=WSMaximized;
end;
```

```
procedure TForm_Utama.SB_SettingClick(Sender: TObject);
begin
  Timer1.Enabled:=False;
  Form_Utama.Enabled:=False;
  Form_Setting.Show;
end;
```

```
procedure TForm_Utama.Timer1Timer(Sender: TObject);
begin
  Timer1.Tag:=Timer1.Tag+1;
  label1.Caption:=intTOstr(Data);

  if FileExists('\'+Form_Setting.DBEdit2.Text+'.gif') = false then
  begin
    //Label5.Caption:=Form_Setting.DBEdit2.Text+' tidak ada';
  end
  ELSE
  begin
    //Label5.Caption:=Form_Setting.DBEdit2.Text+' ada';
    DeleteFile('\'+Form_Setting.DBEdit2.Text+'.gif');
    D[0]:=strTOint(Form_Setting.DBEdit5.Text);
    Data:=(Data or D[0]) and $07;
  end;
```

```
if FileExists('\'+Form_Setting.DBEdit3.Text+'.gif') = false then
begin
  //Label6.Caption:=Form_Setting.DBEdit3.Text+' tidak ada';
end
ELSE
begin
  //Label6.Caption:=Form_Setting.DBEdit3.Text+' ada';
  DeleteFile('\'+Form_Setting.DBEdit3.Text+'.gif');
  D[0]:=not(strTOint(Form_Setting.DBEdit5.Text));
  Data:=(Data and D[0]) and $07;
end;
```

```

if not Form_Setting.Table1.Eof then
  Form_Setting.Table1.Next
else
  Form_Setting.Table1.First;
if (data and $01)=$01 then S1:='Alat 1 ON'
  else S1:='Alat 1 OFF';
if (data and $02)=$02 then S2:='Alat 2 ON'
  else S2:='Alat 2 OFF';
if (data and $04)=$04 then S3:='Alat 3 ON'
  else S3:='Alat 3 OFF';
S:=S1+' | '+S2+' | '+S3;
FormIO.OutPut(LPT,Data);
end;

procedure TForm_Utama.FormActivate(Sender: TObject);
begin
//Form_Utama.Timer1.Enabled:=True;
end;

procedure TForm_Utama.FormDeactivate(Sender: TObject);
begin
//Form_Utama.Timer1.Enabled:=False;
end;

procedure TForm_Utama.SB_SimulasiClick(Sender: TObject);
begin
  Form_Utama.Enabled:=False;
  Form_Simulasi.Show;
end;

procedure TForm_Utama.Timer2Timer(Sender: TObject);
begin
  StatusBar1.SimpleText:=dateTOstr(date)+' | '+timeTOstr(time)+' | '+S
  +' | '+FormIO.sbBar.SimpleText;
end;

procedure TForm_Utama.SB_AboutClick(Sender: TObject);
begin
  Form_Utama.Enabled:=False;
  Form_About.Show;
end;

procedure TForm_Utama.SpeedButton1Click(Sender: TObject);
begin
  FormIO.Show;
end;

end.

```

## ***unit Unit\_Simulasi;***

interface

uses

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

type

```
TForm_Simulasi = class(TForm)
  Memo1: TMemo;
  Panel2: TPanel;
  Panel1: TPanel;
  BB_Alalat1_On: TBitBtn;
  BB_Alalat1_Off: TBitBtn;
  BB_Alalat2_On: TBitBtn;
  BB_Alalat2_Off: TBitBtn;
  BB_Alalat3_On: TBitBtn;
  BB_Alalat3_Off: TBitBtn;
  E_Alalat1_On: TEdit;
  E_Alalat1_Off: TEdit;
  E_Alalat2_On: TEdit;
  E_Alalat2_Off: TEdit;
  E_Alalat3_On: TEdit;
  E_Alalat3_Off: TEdit;
  SBClose: TSpeedButton;
  procedure BB_Alalat1_OnClick(Sender: TObject);
  procedure BB_Alalat1_OffClick(Sender: TObject);
  procedure BB_Alalat2_OnClick(Sender: TObject);
  procedure BB_Alalat2_OffClick(Sender: TObject);
  procedure BB_Alalat3_OnClick(Sender: TObject);
  procedure BB_Alalat3_OffClick(Sender: TObject);
  procedure SBCloseClick(Sender: TObject);
  procedure FormClose(Sender: TObject; var Action: TCloseAction);
private
  { Private declarations }
public
  { Public declarations }
end;
```

var

Form\_Simulasi: TForm\_Simulasi;

implementation

uses Unit\_Utama;

{ \$R \*.dfm }

procedure TForm\_Simulasi.BB\_Alalat1\_OnClick(Sender: TObject);

```
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat1_On.Text+'.gif');
end;

procedure TForm_Simulasi.BB_Alrat1_OffClick(Sender: TObject);
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat1_Off.Text+'.gif');
end;

procedure TForm_Simulasi.BB_Alrat2_OnClick(Sender: TObject);
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat2_On.Text+'.gif');
end;

procedure TForm_Simulasi.BB_Alrat2_OffClick(Sender: TObject);
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat2_Off.Text+'.gif');
end;

procedure TForm_Simulasi.BB_Alrat3_OnClick(Sender: TObject);
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat3_On.Text+'.gif');
end;

procedure TForm_Simulasi.BB_Alrat3_OffClick(Sender: TObject);
begin
  Memo1.Lines.SaveToFile('.\'+E_Alrat3_Off.Text+'.gif');
end;

procedure TForm_Simulasi.SBCloseClick(Sender: TObject);
begin
  Close;
end;

procedure TForm_Simulasi.FormClose(Sender: TObject);
var Action: TCloseAction);
begin
  Form_Utama.Enabled:=True;
end;

end.
```

## ***unit Unit\_Setting;***

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, ExtCtrls, DBCtrls, DB, Mask, DBTables, Buttons;

type

```
TForm_Setting = class(TForm)
  SBClose: TSpeedButton;
  Table1: TTable;
  Table1ALAMAT: TIntegerField;
  Table1PERALATAN: TStringField;
  Table1KODE_OFF: TStringField;
  Table1KODE_ON: TStringField;
  Table1PASS: TStringField;
  DataSource1: TDataSource;
  Panel1: TPanel;
  Label1: TLabel;
  Label2: TLabel;
  Label3: TLabel;
  Label4: TLabel;
  Label5: TLabel;
  DBNavigator1: TDBNavigator;
  DBComboBox1: TDBComboBox;
  DBEdit1: TDBEdit;
  DBEdit2: TDBEdit;
  DBEdit3: TDBEdit;
  DBEdit4: TDBEdit;
  DBEdit5: TDBEdit;
  Panel2: TPanel;
  procedure FormCreate(Sender: TObject);
  procedure FormDestroy(Sender: TObject);
  procedure SBCloseClick(Sender: TObject);
  procedure FormClose(Sender: TObject; var Action: TCloseAction);
private
  { Private declarations }
public
  { Public declarations }
end;
```

var

```
Form_Setting: TForm_Setting;
```

implementation

uses Unit\_Utama, Unit\_Simulasi;

```
{ $R *.dfm }
```

```
procedure TForm_Setting.FormCreate(Sender: TObject);  
begin
```

```
  Table1.Active:=True;  
  Table1.First;  
  Form_Simulasi.E_Alkat1_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat1_Off.Text:=DBEdit3.Text;  
  Table1.Next;  
  Form_Simulasi.E_Alkat2_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat2_Off.Text:=DBEdit3.Text;  
  Table1.Next;  
  Form_Simulasi.E_Alkat3_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat3_Off.Text:=DBEdit3.Text;  
  Table1.First;  
  Form_Utama.Timer1.Enabled:=True;  
end;
```

```
procedure TForm_Setting.FormDestroy(Sender: TObject);
```

```
begin  
  Table1.Active:=False;  
end;
```

```
procedure TForm_Setting.SBCloseClick(Sender: TObject);
```

```
begin  
  Close;  
end;
```

```
procedure TForm_Setting.FormClose(Sender: TObject;
```

```
  var Action: TCloseAction);  
begin  
  Table1.First;  
  Form_Simulasi.E_Alkat1_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat1_Off.Text:=DBEdit3.Text;  
  Table1.Next;  
  Form_Simulasi.E_Alkat2_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat2_Off.Text:=DBEdit3.Text;  
  Table1.Next;  
  Form_Simulasi.E_Alkat3_On.Text :=DBEdit2.Text;  
  Form_Simulasi.E_Alkat3_Off.Text:=DBEdit3.Text;  
  Table1.First;  
  Form_Utama.Enabled:=True;  
  Form_Utama.Timer1.Enabled:=True;  
end;
```

```
end.
```

## ***unit mainform;***

interface

uses

Windows, Messages, SysUtils, Classes, Graphics, Controls, Forms, Dialogs,  
StdCtrls, zportio, ComCtrls, shellapi, ExtCtrls;

type

TFormIO = class(TForm)

lb1: TLabel;

ePort: TEdit;

lb2: TLabel;

eData: TEdit;

eRData: TEdit;

btnExit: TButton;

lb3: TLabel;

coDataType: TComboBox;

Lb4: TLabel;

sbBar: TStatusBar;

btnWrite: TButton;

btnRead: TButton;

Edttype: TEdit;

Edt: TEdit;

EdtIN: TEdit;

Label2: TLabel;

Label3: TLabel;

Label4: TLabel;

Bevel1: TBevel;

BOutput: TButton;

BInput: TButton;

Label1: TLabel;

EPortx: TEdit;

procedure btnExitClick(Sender: TObject);

procedure ePortKeyUp(Sender: TObject; var Key: Word;  
Shift: TShiftState);

procedure ePortKeyPress(Sender: TObject; var Key: Char);

procedure FormCreate(Sender: TObject);

procedure coDataTypeChange(Sender: TObject);

procedure ePortKeyDown(Sender: TObject; var Key: Word;  
Shift: TShiftState);

procedure btnWriteClick(Sender: TObject);

procedure eDataKeyDown(Sender: TObject; var Key: Word;  
Shift: TShiftState);

procedure btnReadClick(Sender: TObject);

procedure BOutputClick(Sender: TObject);

procedure BInputClick(Sender: TObject);

procedure OutPut(Add: word; Data: byte);

procedure InPut(Add: word; var Data: byte);

private



```

    { Private declarations }
public
    { Public declarations }
    procedure setrdata(const Data:dword);
    function str2int(const value:string;const HEX:boolean):integer;
end;

var
    FormIO: TFormIO;
    dtin, dtout, dttype
    {Add, Data }: byte;
const
    LPT1 = $378;
implementation

{$R *.DFM}
{$R-}

function TFormIO.str2int(const value:string;const HEX:boolean):integer;
begin
    if HEX then
        result := strtoint('$' + value)
    else
        result := strtoint(value);
end;

procedure TFormIO.btnExitClick(Sender: TObject);
begin
    close;
end;

procedure TFormIO.ePortKeyUp(Sender: TObject; var Key: Word;
    Shift: TShiftState);
//var i:integer;
begin
    try
        Case key of
            38: begin
                key := 0;
            end;
            40: begin
                key := 0;
            end
        end;
    except
    end;
end;

procedure TFormIO.ePortKeyPress(Sender: TObject; var Key: Char);
begin

```

```

// filter on hex
if pos(key,#13#8'0123456789abcdefABCDEF')=0 then
  key := #0;
end;

procedure TFormIO.FormCreate(Sender: TObject);
begin
  coDataType.itemindex :=0;
  coDataType.Tag := 2;
  if ZLIOSStarted then
    sbBar.SimpleText := 'Driver successfully started !';
end;

procedure TFormIO.coDataTypeChange(Sender: TObject);
var s:string;
begin
  coDataType.Tag := 2 shl (coDataType.itemindex);
  erdata.MaxLength := coDataType.Tag;
  edata.MaxLength := coDataType.Tag;
  s := edata.Text;
  delete(s,1,length(s)-coDataType.Tag);
  edata.text := s;
end;

procedure TFormIO.ePortKeyDown(Sender: TObject; var Key: Word;
  Shift: TShiftState);
var Port,data:dword;
begin
  try
    try
      Port := str2int(ePort.Text,true);
    except
      Port := 0;
    end;
  Case key of
    13: begin
      zlioportwrite(port,coDataType.itemindex,str2int(eData.Text, true));
    end;
    38: begin
      inc(Port);
      ePort.Text := intohex(Port,3);
      key := 0;
    end;
    40: begin
      if port > 0 then
        dec(Port);
      ePort.Text := intohex(Port,3);
      key := 0;
    end
  end
end;
end;

```

```
data := zlioprtread(Port,coDataType.itemindex);
setrdata(data);
except
end;
```

```
end;
```

```
procedure TFormIO.setrdata(const Data:dword);
begin
erData.Text := inttohex(Data,coDataType.Tag);
end;
```

```
procedure TFormIO.btnWriteClick(Sender: TObject);
var i:word;
begin
i := 13;
ePortKeyDown( self,i,[])
end;
```

```
procedure TFormIO.eDataKeyDown(Sender: TObject; var Key: Word;
Shift: TShiftState);
var data:dword;//kkey:word;
begin
try
Data := str2int(eData.Text,true);
except Data := 0; end;
Case key of
13: begin
ePortKeyDown( self,key,[])
end;
38: begin
inc(Data);
eData.Text := inttohex(Data,coDataType.Tag);
key := 0;
end;
40: begin
dec(Data);
eData.Text := inttohex(Data,coDataType.Tag);
key := 0;
end
end;
end;
```

```
end;
```

```
procedure TFormIO.btnReadClick(Sender: TObject);
var k:word;
begin
k := 0;
ePortKeyDown(self, k,[]);
```



```
end;
```

```
procedure TFormIO.BOutputClick(Sender: TObject);  
begin  
  zlioportwrite(strTOint(EPortx.Text),strTOint(Edttype.Text),strTOint(Edt.Text));  
end;
```

```
procedure TFormIO.BInputClick(Sender: TObject);  
begin  
  EdtIN.Text:=intTOstr(zlioportread(strTOint(EPortx.Text),strTOint(Edttype.Text)));  
end;
```

```
procedure TFormIO.OutPut(Add: word; Data: Byte);  
begin  
  zlioportwrite(Add,0,Data);  
end;
```

```
procedure TFormIO.InPut(Add: word; var Data: byte);  
begin  
  Data:=(zlioportread(Add,0));  
end;  
end.
```

