

LAMPIRAN A

SYNTAX PADA FORM LOGIN

A.1. FILE INDEX.HTML

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-
1">
<title>Daniel's WebSite</title>
</head>

<body>
<body bgcolor="black">
<font color = "#555555">
<h1><p align="center">
You Are Invite Daniel's WebSite
</h1>
<br><br>
<br><br>
<br><br>
<form name = "form1" method = "post" action = "cgi-bin/authentic.exe">
<font size = "5">
Log In
</font>
<br>
<table width = "313" border = "0">
<tr>
<td width = "92"><font color = "#555555"> User Name </font></td>
```

```

<td width = "211"><input type = "text" name = "username"></td>
</tr>

<tr>
<td><font color = "#555555">Password</font></td>
<td><input type = "password" name = "password"></td>
</tr>

<tr>
<td>&nbsp;</td>
<td><input type = "submit" name = "Submit" value = "Submit"></td>
</tr>
</table>
<label></label>
<p>&nbsp;</p>
</font>
</form>
<br>
<br><br>
<br><br>
<br><br>
<br><br>
<p align = "center">
<font color="#555555" size="1" face="Verdana, Arial, Helvetica, sans-
serif">©2009-2010™
    Niel Corporated, Inc.</font>
</p>
</body>
</html>

```

LAMPIRAN B

SYNTAX PADA FORM PENGONTROLAN PERTAMA

B.1. FILE PRODUCER.HTML

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-
1">
<title>Daniel's WebSite</title>
<style type = "text/css">
<!--
.style1 {color: #ff0000}
.style2 {color: #555555}
.style3 {color:#0000ff}
-->
</style>
</head>

<body>
<body bgcolor = "black">
<form name = "form1" method = "post" action = "execute.exe">
<br>
<br>
<p class = "style2" align = "center"> Selamat Datang <span class =
"style3"> <#username> </span>
di Fasilitas <span class = "style1"> Web Device Controller </span></p>
<p align = "center">
<br><br>
```

```

<table width = "30%" border = "1">
  <tr>
    <td width = "12.5%"><div align = "center" class = "style1">Nama
Alat</div></td>
    <td width = "12.5%"><div align = "center" class =
"style1">Status</div></td>
    <td width = "5%"><div align = "center" class = "style1">Switch
Alat</div></td>
  </tr>

```

```

<tr>
  <td class = "style2"> Pintu </td>
  <td class = "style2"><#status_kulkas></td>
  <td><div align = "center">
    <select name = "kulkas">
      <option value = "on">on</option>
      <option value = "off">off</option>
    </select>
  </div></td>
</tr>

```

```

<tr>
  <td class = "style2">Lampu </td>
  <td class = "style2"><#status_ac></td>
  <td><div align = "center">
    <select name = "ac">
      <option value = "on">on</option>
      <option value = "off">off</option>
    </select>
  </div></td>
</tr>

```

```

<tr>
  <td class = "style2">Yard Lamp</td>
  <td class = "style2"><#status_Lampu></td>
  <td><div align = "center">
    <select name = "lampu">
      <option value = "on">on</option>
      <option value = "off">off</option>
    </select>
  </div></td>
</tr>

```

```

<tr>
  <td class = "style2">Alarm</td>
  <td class = "style2"><#status_alarm></td>
  <td><div align = "center">
    <select name = "alarm">
      <option value = "on">on</option>
      <option value = "off">off</option>
    </select>
  </div></td>
</tr>
</table>

```

```

<table width = "30%" border = "1">
  <tr>
    <td width = "12.5%"><div align = "left" class = "style2">Sensor
    IR</div></td>
    <td width = "17.5%"><div align = "center" class =
    "style2"><#status_SensorIR></div></td>
  <tr>

```

```
</table>

<br><br>
</p>
<p align = "center"> <span class = "style2">Tekan </span>
<span class = "style3">Execute </span><span class = "style2">untuk
mengekseski setting alat baru,atau </span>
<a href = "http://localhost/index.html" target="_self">Logout</a>
<span class = "style2">untuk keluar</span></p>
<p align = "center">
  <input type = "submit" name = "Submit" value = "Execute">
</p>
</form>
<br><br>
<br><br>
<br><br>
<br><br>
<p align = "center">
<font color="#555555" size="1" face="Verdana, Arial, Helvetica, sans-
serif">©2009-2010™
  Niel Corporated, Inc.</font>
</body>
</html>
```

LAMPIRAN C

SYNTAX PADA FORM PENGONTROLAN KEDUA

C.1. FILE EXECUTE.HTML

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-
1">
<title>Daniel's WebSite</title>
<style type = "text/css">
<!--
.style1 {color: #ff0000}
.style2 {color: #555555}
.style3 {color:#0000ff}
-->
</style>
</head>

<body>
<body bgcolor = "black">
<form name = "form1" method = "post" action = "execute.exe">
<br>
<br>
<p class = "style2" align = "center"> Setting Status Telah Berubah</p>
<p align = "center">
<br><br>
<table width = "30%" border = "1">
<tr>
```

```
<td width = "12.5%"><div align = "center" class = "style1">Nama  
Alat</div></td>
```

```
<td width = "12.5%"><div align = "center" class =  
"style1">Status</div></td>
```

```
<td width = "5%"><div align = "center" class = "style1">Switch  
Alat</div></td>
```

```
</tr>
```

```
<tr>
```

```
<td class = "style2"> Pintu </td>
```

```
<td class = "style2"><#status_kulkas></td>
```

```
<td><div align = "center">
```

```
<select name = "kulkas">
```

```
<option value = "on">on</option>
```

```
<option value = "off">off</option>
```

```
</select>
```

```
</div></td>
```

```
</tr>
```

```
<tr>
```

```
<td class = "style2">Lampu </td>
```

```
<td class = "style2"><#status_ac></td>
```

```
<td><div align = "center">
```

```
<select name = "ac">
```

```
<option value = "on">on</option>
```

```
<option value = "off">off</option>
```

```
</select>
```

```
</div></td>
```

```
</tr>
```

```
<tr>
```



```

<td class = "style2">Yard Lamp</td>
<td class = "style2"><#status_Lampu></td>
<td><div align = "center">
  <select name = "lampu">
    <option value = "on">on</option>
    <option value = "off">off</option>
  </select>
</div></td>
</tr>

```

```

<tr>
  <td class = "style2">Alarm</td>
  <td class = "style2"><#status_alarm></td>
  <td><div align = "center">
    <select name = "alarm">
      <option value = "on">on</option>
      <option value = "off">off</option>
    </select>
  </div></td>
</tr>
</table>

```

```

<table width = "30%" border = "1">
  <tr>
    <td width = "12.5%"><div align = "left" class = "style2">Sensor
    IR</div></td>
    <td width = "17.5%"><div align = "center" class =
    "style2"><#status_SensorIR></div></td>
  <tr>
  </table>

```

```
<br><br>
</p>
<p align = "center"> <span class = "style2">Tekan </span>
<span class = "style3">Execute </span><span class = "style2">untuk
mengeksekusi setting alat baru,atau </span>
<a href = "http://localhost/index.html" target="_self">Logout</a>
<span class = "style2">untuk keluar</span></p>
<p align = "center">
  <input type = "submit" name = "Submit" value = "Execute">
</p>
</form>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<p align = "center">
<font color="#555555" size="1" face="Verdana, Arial, Helvetica, sans-
serif">©2009-2010™
  Niel Corporated, Inc.</font>
</body>
</html>
```

LAMPIRAN D

SYNTAX PADA FILE AUTHENTIC.EXE

D.1. DEKLARASI FILE AUTHENTIC.EXE

```
unit Umain;

interface

uses
    SysUtils, Classes, HTTPApp, HTTPProd;

type
    TWebModule1 = class(TWebModule)
        PageProducer1: TPageProducer;
        procedure WebModule1AuthentifikasiAction(Sender: TObject;
            Request: TWebRequest; Response: TWebResponse; var Handled:
Boolean);
        procedure PageProducer1HTMLTag(Sender: TObject; Tag: TTag;
            const TagString: String; TagParams: TStrings;
            var ReplaceText: String);
    private
        { Private declarations }
    public
        { Public declarations }
        kulkas,ac,lampu,alarm,username,sensor :string;
        procedure get_device_status;
        function baca_port :byte;
```

```

    end;

var
    WebModule1: TWebModule1;

implementation

{$R *.dfm}

```

D.2. FUNCTION BACA PORT

```

function TWebModule1.baca_port : byte;
var temp : byte;
begin
asm
mov dx,$379
in al,dx
mov temp,al
end;
temp:=temp xor $7F;
result:= temp;
end;

```

D.3. PROCEDURE GET DEVICE STATUS

```

procedure TWebModule1.get_device_status;
begin
if(baca_port and $10)=$10 then kulkas :='on' else kulkas :='off';
if(baca_port and $20)=$20 then ac :='on' else ac :='off';
if(baca_port and $40)=$40 then lampu :='on' else lampu :='off';
if(baca_port and $80)=$80 then alarm :='on' else alarm :='off';

```

```
if(baca_port and $08)=$08 then sensor :='on' else sensor :='off';  
end; object
```

D.4. OBJECT WEBMODULE1 EVENT ON ACTION

```
procedure        TWebModule1.WebModule1AuthentifikasiAction(Sender:  
TObject;  
    Request: TWebRequest; Response: TWebResponse; var Handled:  
Boolean);  
var  
password :string;  
begin  
    username := request.ContentFields.Values ['username'];  
    password := request.ContentFields.Values ['password'];  
    if((username = 'Daniel') and (password = '0727016')) or ((username =  
'Guest') and (password = 'guest')) then  
        begin  
            pageproducer1.htmlFile :='producer.html';  
            response.Content:=pageproducer1.content;  
        end  
    else  
        response.Content := 'Access Denied...You Are hacker';  
    end;
```

D.5. OBJECT PAGEPRODUCER1 EVENT ON TAG HTML

```
procedure TWebModule1.PageProducer1HTMLTag(Sender: TObject;  
Tag: TTag;  
    const TagString: String; TagParams: TStrings; var ReplaceText: String);  
begin  
    get_device_status;
```

```
if CompareText(TagString,'username') = 0 then replacetext := username;
if CompareText(TagString,'status_kulkas') = 0 then replacetext := kulkas;
if CompareText(TagString,'status_ac') = 0 then replacetext := ac;
if CompareText(TagString,'status_lampu') = 0 then replacetext := lampu;
if CompareText(TagString,'status_alarm') = 0 then replacetext := alarm;
if CompareText(TagString,'status_SensorIR') = 0 then replacetext :=
sensor;
end;

end.
```

LAMPIRAN E

SYNTAX PADA FILE EXECUTE.EXE

E.1. DEKLARASI FILE EXECUTE.EXE

```
unit Umain2;

interface

uses

  SysUtils, Classes, HTTPApp, HTTPProd;

type

  TWebModule1 = class(TWebModule)
    PageProducer1: TPageProducer;
    procedure WebModule1executeAction(Sender: TObject;
      Request: TWebRequest; Response: TWebResponse; var Handled:
Boolean);
    procedure PageProducer1HTMLTag(Sender: TObject; Tag: TTag;
      const TagString: String; TagParams: TStrings;
      var ReplaceText: String);
  private
    { Private declarations }
  public
    { Public declarations }
    data_status : byte;
    kulkas, ac, lampu, sensor, alarm : string;
    procedure get_device_status;
```

```
procedure tulisport(data:byte);
function bacaport:byte;
function bacaport1:byte;
end;
```

```
var
  WebModule1: TWebModule1;
```

```
implementation
```

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

E.2. FUNGTION BACA PORT

```
function TWebModule1.bacaport: byte;
var temp : byte;
begin
asm
mov dx,$379
in al, dx
mov temp,al
end;
temp := temp shr 3;
result := temp;
end;
```

E.3. FUNGTION BACA PORT1

```
function TWebModule1.bacaport1: byte;
var temp : byte;
begin
```



```

asm
mov dx,$379
in al, dx
mov temp,al
end;
temp := temp xor $7F;
result := temp;
end;

```

E.4. PROCEDURE TULIS PORT

```

procedure TWebModule1.tulisport(data : byte);
begin
asm
mov dx, $378
mov al,data
out dx, al
end;
end;

```

E.5. OBJECT WEBMODULE1

EVENT ON ACTION

```

procedure TWebModule1.WebModule1executeAction(Sender: TObject;
Request: TWebRequest; Response: TWebResponse; var Handled: Boolean);
var kulkas,ac,lampu,alarm : string;
begin
//kulkas dipasang pada LPT (port status) pada alamat $01
//ac dipasang pada LPT (port status) pada alamat $02
//lampu dipasang pada LPT (port status) pada alamat $04
//alarm dipasang pada LPT (port status) pada alamat $08

```

```

//baca data pada lpt port status
data_status :=bacaport;
//ambil request field yg dikimkan user
kulkas :=request.ContentFields.ValueFromIndex[0];
ac :=request.ContentFields.ValueFromIndex[1];
lampu :=request.ContentFields.ValueFromIndex[2];
alarm :=request.ContentFields.ValueFromIndex[3];

//nyalakan alat dan matikan alat sesuai dgn opsi yg dimasukan user
if kulkas ='on' then data_status := data_status or 01 else data_status :=
data_status xor 01;
if ac ='on' then data_status := data_status or 02 else data_status := data_status
xor 02;
if lampu ='on' then data_status := data_status or 04 else data_status :=
data_status xor 04;
if alarm ='on' then data_status := data_status or 08 else data_status :=
data_status xor 08;
//jika telah selesai menentukan alat yang aktif atau non aktif kemudan tulis port
tulisport(data_status);
//bacaport yg menunjukkan status alat
data_status := bacaport;
//masuakn file execute.html ke page producer untuk ditampilkan ke user
pageproducer1.HTMLFile :='execute.html';
response.content:= pageproducer1.content;
end;

```

E.6. PROCEDURE GET DEVICE STATUS

```

procedure TWebModule1.get_device_status;
begin
//kulkas dipasang pada LPT (port status) pada alamat $01

```

```

//ac dipasang pada LPT (port status) pada alamat $02
//lampu dipasang pada LPT (port status) pada alamat $04
//alarm dipasang pada LPT (port status) pada alamat $08
if(bacaport1 and $10)=$10 then kulkas :='on' else kulkas :='off';
if(bacaport1 and $20)=$20 then ac :='on' else ac :='off';
if(bacaport1 and $40)=$40 then lampu :='on' else lampu :='off';
if(bacaport1 and $80)=$80 then alarm :='on' else alarm :='off';
if(bacaport1 and $08)=$08 then sensor :='on' else sensor :='off';
end;

```

E.7. OBJECT PAGEPRODUCER1 EVENT ON TAG HTML

```

procedure TWebModule1.PageProducer1HTMLTag(Sender: TObject; Tag:
TTag;
  const TagString: String; TagParams: TStrings; var ReplaceText: String);
begin
  get_device_status;
  //pindah text yg berformat <#xxxxx> pada file html untuk diganti dgn isi
  masing2 variable
  if CompareText(TagString,'status_kulkas') = 0 then replacetext := kulkas;
  if CompareText(TagString,'status_ac') = 0 then replacetext := ac;
  if CompareText(TagString,'status_lampu') = 0 then replacetext := lampu;
  if CompareText(TagString,'status_alarm') = 0 then replacetext := alarm;
  if CompareText(TagString,'status_SensorIR') = 0 then replacetext := sensor;
end;

end.

```

LAMPIRAN F

SYNTAX PADA ATMEGA 16

F.1. MEMASUKAN LIBRARY

```
#include <mega16.h>
#include <delay.h>
```

F.2. PROCEDURE PUTAR MOTOR SEARAH JARUM JAM

```
void putarCW()
{
PORTB = 0b11111110;
delay_ms(30);
PORTB = 0b11111101;
delay_ms(30);
PORTB = 0b11111011;
delay_ms(30);
PORTB = 0b11110111;
delay_ms(30);
}
```

F.3. PROCEDURE PUTAR MOTOR BERLAWANAN JARUM JAM

```
void putarCCW()
{
PORTB = 0b11110111;
delay_ms(30);
PORTB = 0b11111011;
delay_ms(30);
PORTB = 0b11111101;
delay_ms(30);
PORTB = 0b11111110;
delay_ms(30);
}
```

F.4. DEKLARASI PORT

```
void main(void)
{

PORTA=0x00;
DDRA=0x00;
PORTB=0xff;
DDRB=0xff;
PORTC=0xff;
DDRC=0xff;
PORTD=0xff;
DDRD=0xff;
TCCR0=0x00;
TCNT0=0x00;
OCR0=0x00;
TCCR1A=0x00;
TCCR1B=0x00;
TCNT1H=0x00;
TCNT1L=0x00;
ICR1H=0x00;
ICR1L=0x00;
OCR1AH=0x00;
OCR1AL=0x00;
OCR1BH=0x00;
OCR1BL=0x00;
ASSR=0x00;
TCCR2=0x00;
TCNT2=0x00;
OCR2=0x00;
MCUCR=0x00;
MCUCSR=0x00;
TIMSK=0x00;
ACSR=0x80;
SFIOR=0x00;
```

F.5. MAIN PROGRAM

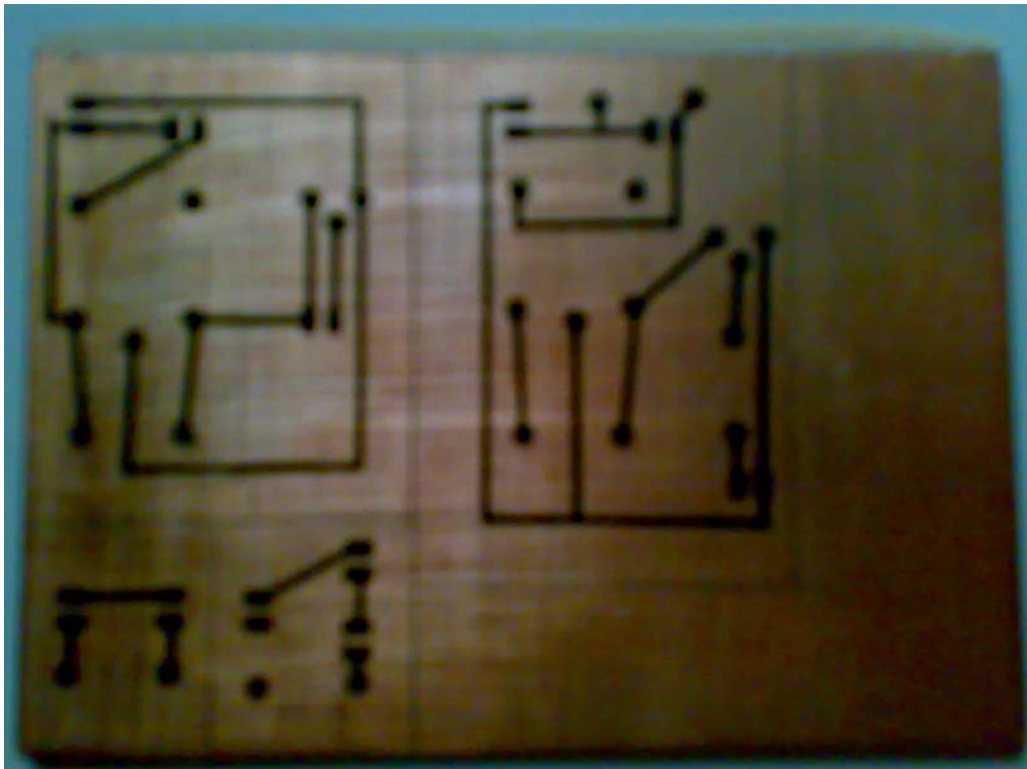
```
while (1)
{
while(PINA.0==1)
{
while(PINA.2==0)
{
putarCW();
```

```
    }
    if(PINA.2==1)PORTC = 0xBF;
  }
  while(PINA.0==0)
  {
    while(PINA.4==0)
    {
      putarCCW();
    }
    if(PINA.4==1)PORTC = 0xFD;
  }
};
}
```

LAMPIRAN G

FOTO – FOTO ALAT

G.1. PEMBUATAN PCB



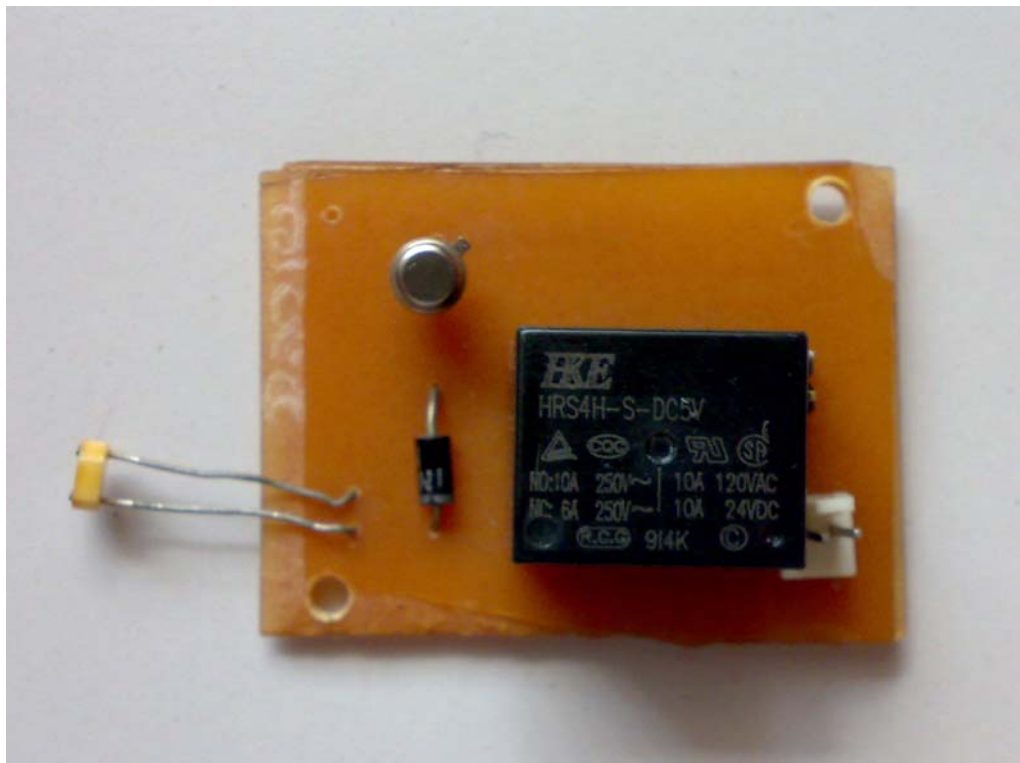
G.2. RANGKAIAN PENGENDALI UNTUK DC



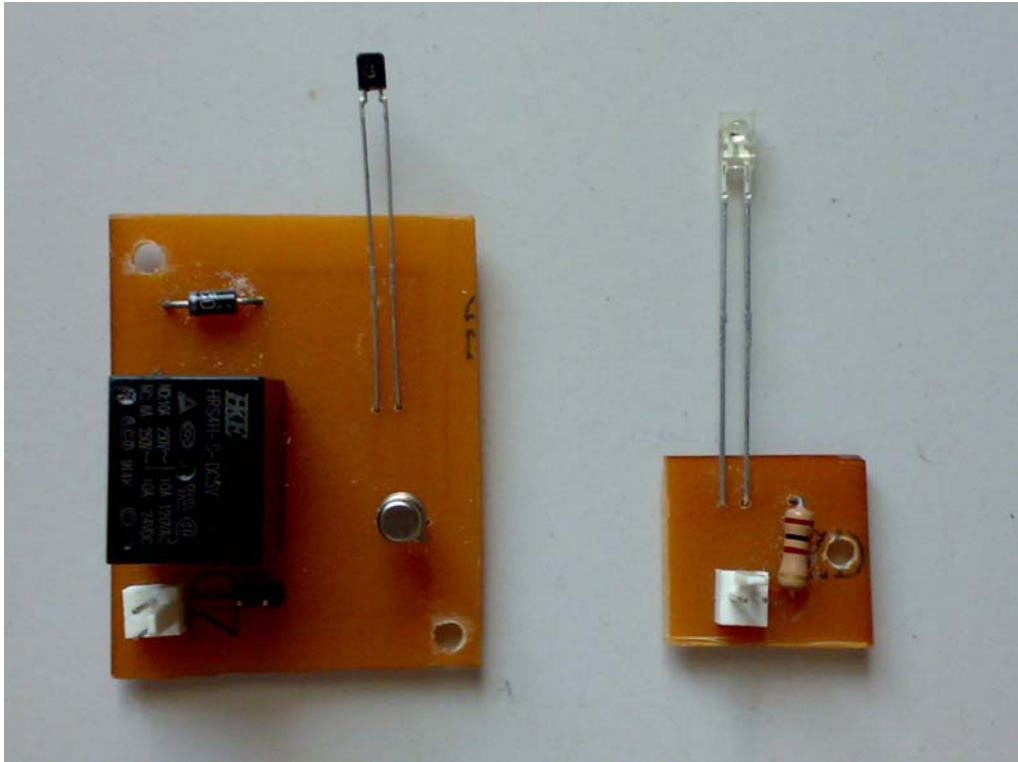
G.3. RANGKAIAN PENGENDALI UNTUK AC



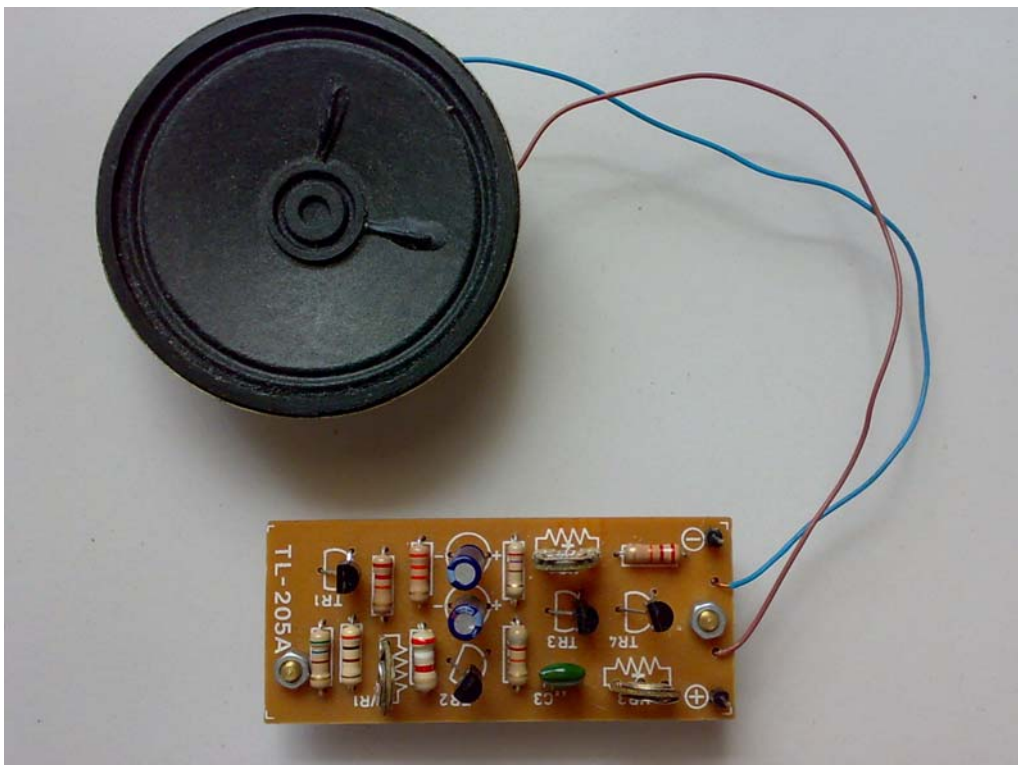
G.4. RANGKAIAN SENSOR CAHAYA



G.5. RANGKAIAN SENSOR IR



G.6. RANGKAIAN ALARM



G.7. RANGKAIAN ATMEGA 16

