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<div style="text-align: center;"><a
href="https://raisha212033.blogspot.com/2024/03/modul-1-pratikum-up-uc.html">[KEMBALI KE
MENU SEBELUMNYA]</a></div>
<center>
<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px;
overflow: auto; padding: 10px; text-align: center; width: 330px;">
<b><a name="home">DAFTAR ISI</a></b>
<br />
<div style="text-align: left;">
<a href="#p">1. Prosedur</a></div>
<div style="text-align: left;">
<a href="#hd">2. Hardware dan Diagram Blok</a></div>
<div style="text-align: left;">
<a href="#r">3. Rangkaian Simulasi dan Prinsip Kerja</a></div>
<div style="text-align: left;">
<a href="#fp">4. Flowchart dan Listing Program</a></div>
<div style="text-align: left;">
<a href="#k">5. Kondisi</a></div>
<div style="text-align: left;">
<a href="#v">6. Video Simulasi</a></div>
<div style="text-align: left;">
<a href="#d">7. Link Download</a></div>
<div style="text-align: left;">
</div></div>
<h1 style="text-align: center;"><b style="text-align: left;"><span style="font-family: inherit;
font-size: medium;"><span>Percobaan 6 Kondisi 2</span></span></b></h1><h3
style="text-align: justify;"><span style="font-size: small;"><b style="background-color: white;
font-family: times, &quot;times new roman&quot;, serif; text-align: start;"><a name="p">1.
Prosedur&nbsp;</a></b><span style="background-color: white; font-family: times, &quot;times
new roman&quot;, serif; font-weight: 400; text-align: start;"></span><a name="Prosedur"
style="background-color: white; font-family: times, &quot;times new roman&quot;, serif;
font-weight: 400; text-align: start;"></a><span style="background-color: white; font-family: times,
&quot;times new roman&quot;, serif; font-weight: 400; text-align: start;"></span><a href="#top"
style="background-color: white; font-family: times, &quot;times new roman&quot;, serif;
font-weight: 400; text-align: start; text-decoration-line: none;"><span style="color:
#2b00fe;">[Kembali]</span></a></span></h3><div style="text-align: left;"><span face="Arial,
Tahoma, Helvetica, FreeSans, sans-serif" style="background-color: white; font-size: 13.2px;">1.
Rangkai rangkaian di proteus sesuai dengan kondisi percobaan.</span><br
style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif;
font-size: 13.2px;" /><span face="Arial, Tahoma, Helvetica, FreeSans, sans-serif"
style="background-color: white; font-size: 13.2px;">2. Tulis program untuk arduino di software
Arduino IDE.</span><br style="background-color: white; font-family: Arial, Tahoma, Helvetica,
FreeSans, sans-serif; font-size: 13.2px;" /><span face="Arial, Tahoma, Helvetica, FreeSans,
sans-serif" style="background-color: white; font-size: 13.2px;">3. Compile program tadi, lalu

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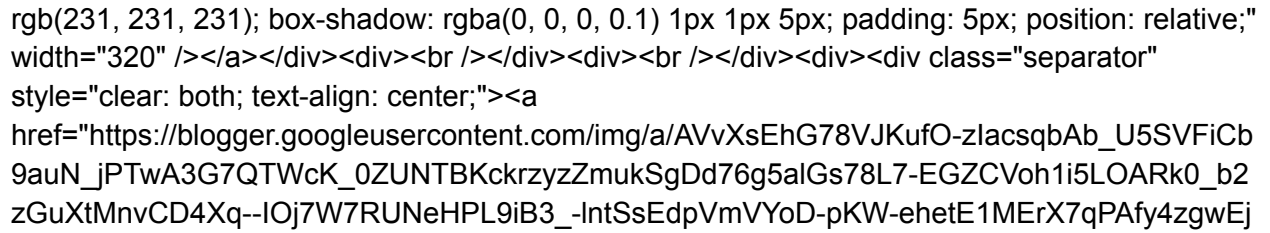
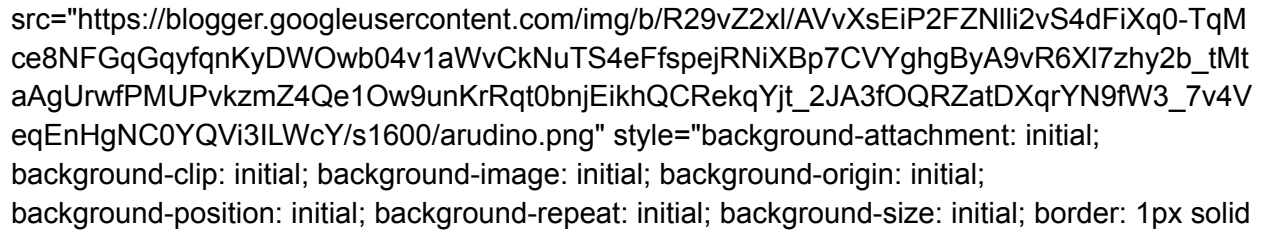
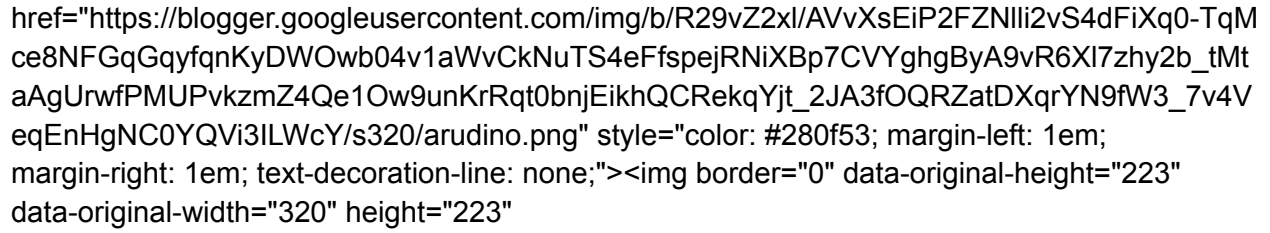
upload ke dalam arduino.

4. Setelah program selesai di upload, jalankan simulasi rangkaian pada proteus.

2. Hardware dan Diagram Blok

Hardware :

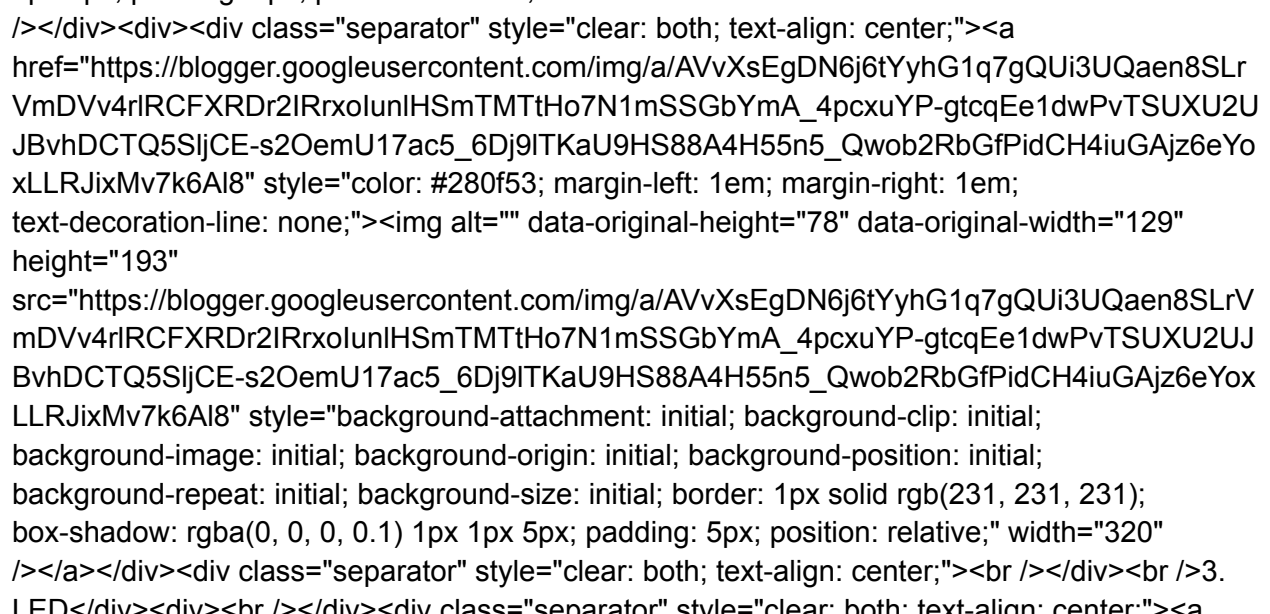
1. Arduino



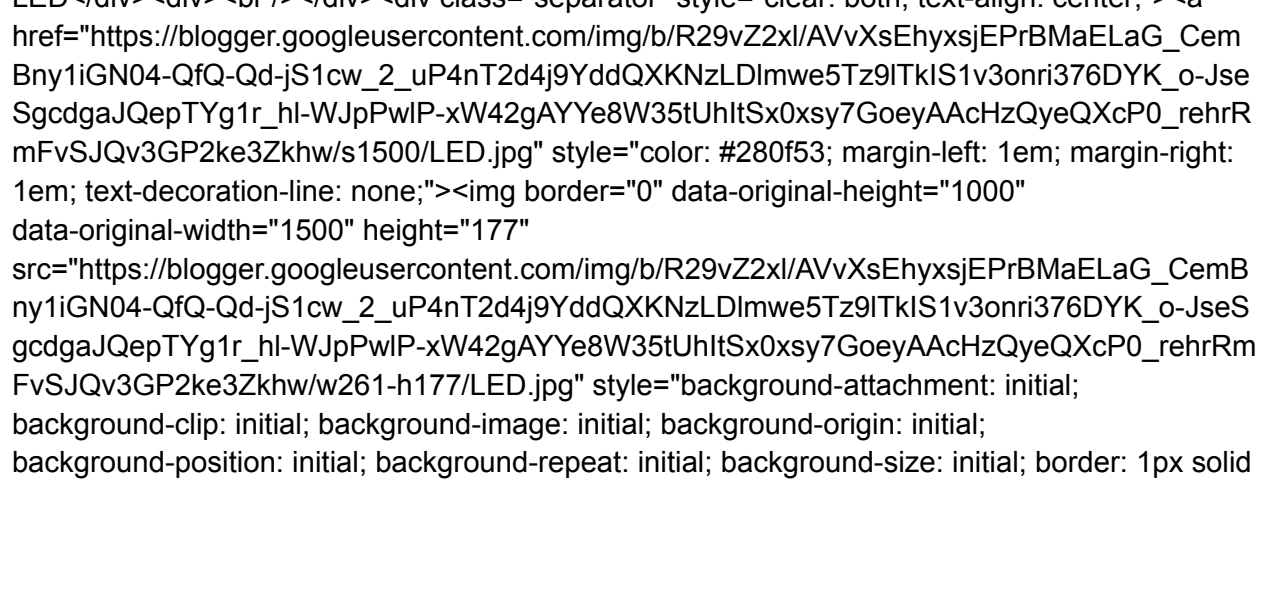
[2. Push Button](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgX5imHok-BlaDTT_4zC5j evsBtiw0DxN61WZ31hS577I2IFiBvws0D9eZaIStscHpRoPhrfatGPlw4D74cpW1nwNI2bzHbX2U QBaT1LvKV40Yn9kk8jiXh28OC3G5vN-q6XO416Szej7VK7Qq-fLNr2dvkZM5oJlgUlu1PfUr_d6d wokZUDrv4P8_bKY8/s1000/61HSIEOd0fL._AC_UF1000,1000_QL80_.jpg)



[3. LED](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgDN6j6tYyhG1q7gQUi3UQaen8SLr VmDVv4rIRCfXRDr2IRxolunIHSmTMTtHo7N1mSSGbYmA_4pcxuYP-gtcqEe1dwPvTSUXU2U JBvhDCTQ5SljCE-s2OemU17ac5_6Dj9ITKaU9HS88A4H55n5_Qwob2RbGfPidCH4iuGAjz6eYo xLLRJixMv7k6Al8)



[4. LED](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhyxsjEPbMaELaG_Cem Bny1iGN04-QfQ-Qd-jS1cw_2_uP4nT2d4j9YddQXKNzLDImwe5Tz9ITkIS1v3onri376DYK_o-Jse SgcdgaJQepTYg1r_hl-WJpPwIP-xW42gAYYe8W35tUhlTsx0xsy7GoeyAAChzQyeQXcP0_rehrR mFvSJQv3GP2ke3Zkhw/s1500/LED.jpg)



rgb(231, 231, 231); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; padding: 5px; position: relative;" width="261" /></div><div>
</div><div>
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">4. Resistor</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div>Diagram Blok :</div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div>
</div></div><h3 style="text-align: justify;"><b style="background-color: white; font-family: times, "times new roman"; serif; text-align: start;">3. Rangkaian Simulasi dan Prinsip Kerja [Kembali]</h3><div style="text-align: left;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div>
Prinsip Kerja:</div><div style="text-align: left;">
</div><div style="text-align: left;">
</div><h3 style="text-align: justify;"><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-weight: 400; text-align: start;">4. Flowchart dan Listing Program [Kembali]</div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-weight: 400; text-align: start;">
</div><div style="text-align: start;"><div style="background-color: white; font-family: "Times New Roman"; font-size: medium; font-weight: 400;">Flowchart :</div><div style="background-color: white; font-family: "Times New Roman"; font-size: medium; font-weight: 400;">
</div><div class="separator" style="clear: both; text-align: center;"><a

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjuCVyt4PVr7ZVEd09Cr4zqJ9GRZ3V0XBxBHwSYSG5wyeOxIPggFgQGu4_O40c-kqQjGm0cAWEDExVxGbcDx7dtC7JA7-e20__XI2lxG0KJSy-DmMPCKypnHp8ZmgE83zo9Pk9kyYIMGe0WgueT6zBeQ_56aNM3dW8YXI_zT1BucpwfYkQM63N0Bp5hpFs/s464/Screenshot%202024-03-18%20003742.png"

imageanchor="1" style="margin-left: 1em; margin-right: 1em;"></div>
<div style="background-color: white; font-family: "Times

New Roman"; font-size: medium; font-weight: 400;"><span style="font-family: times,

"times new roman"; serif;">Listing Program:</div><div

style="background-color: white; font-family: "Times New Roman"; font-size: medium;

font-weight: 400;"><br

new roman, serif; font-size: small; font-weight: 400;"><div>#include

<LiquidCrystal.h>;</div><div>
</div><div>#define PB1 A0</div><div>#define PB2

A1</div><div>#define PB3 A2</div><div>#define PB4 A3</div><div>#define PB5

A4</div><div>#define PB6 A5</div><div>#define PB7 12</div><div>#define PB8

13</div><div>
</div><div>const int rs = 11, en = 10, d4 = 6, d5 = 5, d6 = 4, d7 =

3;</div><div>LiquidCrystal lcd(rs, en, d4, d5, d6, d7);</div><div>
</div><div>bool Button1,

Button2, Button3, Button4, Button5, Button6, Button7, Button8;</div><div><br

lcd.begin(16, 2);</div><div> pinMode(PB1, INPUT);</div><div> pinMode(PB2,

INPUT);</div><div> pinMode(PB3, INPUT);</div><div> pinMode(PB4,

INPUT);</div><div> pinMode(PB5, INPUT);</div><div> pinMode(PB6,

INPUT);</div><div> pinMode(PB7, INPUT);</div><div> pinMode(PB8,

INPUT);</div><div>}</div><div>
</div><div>void loop() {</div><div> Button1 =

digitalRead(PB1);</div><div> Button2 = digitalRead(PB2);</div><div> Button3 =

digitalRead(PB3);</div><div> Button4 = digitalRead(PB4);</div><div> Button5 =

digitalRead(PB5);</div><div> Button6 = digitalRead(PB6);</div><div> Button7 =

digitalRead(PB7);</div><div> Button8 = digitalRead(PB8);</div><div><br

'A';</div><div> } else if (Button2 == HIGH) {</div><div> displayChar =

'B';</div><div> } else if (Button3 == HIGH) {</div><div> displayChar =

'C';</div><div> } else if (Button4 == HIGH) {</div><div> displayChar =

'D';</div><div> } else if (Button5 == HIGH) {</div><div> displayChar =

'E';</div><div> } else if (Button6 == HIGH) {</div><div> displayChar =

'F';</div><div> } else if (Button7 == HIGH) {</div><div> displayChar =

'G';</div><div> } else if (Button8 == HIGH) {</div><div> displayChar =

'H';</div><div> } else {</div><div> displayChar = ' '; // Jika tidak ada

tombol yang ditekan, set kolom kedua menjadi kosong</div><div>

</div><div><br

```

/></div><div>&nbspbsp; lcd.clear();</div><div>&nbspbsp; lcd.setCursor(0, 0);</div><div>&nbspbsp;
lcd.print("Button Pressed:");</div><div>&nbspbsp; lcd.setCursor(0, 1);</div><div>&nbspbsp;
lcd.print(displayChar);</div><div><br /></div><div>&nbspbsp;
delay(100);</div><div>}</div></span></div><div style="font-family: "Times New
Roman"; font-size: medium; font-weight: 400;"><span style="font-family: times,
"times new roman";, serif;"><div class="separator" style="background-color: white;
clear: both; text-align: center;"><br /></div></span></div></div></h3><h3 style="text-align:
justify;"><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans,
sans-serif; font-weight: 400; text-align: start;"><span style="font-size: small;"><b
style="font-family: times, "times new roman";, serif;"><a name="k">5.
Kondisi&nbspbsp;</a></b><a href="#top" style="font-family: times, "times new roman";,
serif; text-decoration-line: none;"><span style="color:
#2b00fe;">[Kembali]</span></a></span></div></h3><h3 style="text-align: justify;"><div
class="separator" style="clear: both; text-align: left;"><span style="font-size: small;"><span
style="font-weight: normal;">Percobaan 6 Kondisi 2:</span></span></div><div
class="separator" style="clear: both; text-align: left;"><span style="background-color: white;
font-size: small; font-weight: 400;">Button 1-8 menampilkan huruf A-H secara berurut kolom
2</span><span style="background-color: white; font-family: times, "times new
roman";, serif; font-size: 13.2px; font-weight: 400;">&nbspbsp;</span></div></h3><h3
style="text-align: justify;"><div style="background-color: white; font-family: Arial, Tahoma,
Helvetica, FreeSans, sans-serif; font-weight: 400; text-align: start;"><span style="font-size:
small;"><b style="font-family: times, "times new roman";, serif;"><a name="v">6.
Video simulasi&nbspbsp;</a></b><a href="#top" style="font-family: times, "times new
roman";, serif; text-decoration-line: none;"><span style="color:
#2b00fe;">[Kembali]</span></a></span></div><div class="separator" style="clear: both;
text-align: left;"><br /></div><div class="separator" style="clear: both; text-align: left;"><br
/></div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans,
sans-serif; font-weight: 400; text-align: center;"><br /></div><div style="background-color: white;
font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-weight: 400; text-align:
start;"><br /></div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica,
FreeSans, sans-serif; font-weight: 400; text-align: start;"><b style="font-family: times,
"times new roman";, serif; font-size: medium;">7. Download File&nbspbsp;</b><a
href="#top" style="font-family: times, "times new roman";, serif; font-size: medium;
text-decoration-line: none;"><span style="color:
#2b00fe;">[Kembali]</span></a></div></h3></center>
<div><span style="font-family: "times"; , "times new roman"; , serif;"><br
/></span></div><div><span style="font-family: "times"; , "times new
roman"; , serif;"><div><div></div></div></span></div><div><div>HTML&nbspbsp; &nbspbsp;
&nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; &nbspbsp; <a
href="https://docs.google.com/document/d/1ZAKOA__pE0Aeo-r4wOu5KUd64gSO rFZJ4R7es9R
UBNk/edit">klik disini</a></div><div>file RANGKAIAN&nbspbsp; &nbspbsp; &nbspbsp;<a
href="https://drive.google.com/file/d/1zZr1d9reohkXjvAQOqlfohh_J0ELunzU/view?usp=drive_lin
k">klik disini</a></div><div>Video Percobaan&nbspbsp; &nbspbsp; &nbspbsp;&nbspbsp;<a href="//
Mematikan semua LED terlebih dahulu for (int i = 0; i &lt; 8; i++) {digitalWrite(led[i],HIGH); }

```

```
// Menyalakan LED yang sesuai dengan tombol yang ditekan // Jika tombol ditekan (HIGH),  
LED yang sesuai akan dinyalakan if (b8 == HIGH) digitalWrite(led[7], LOW); if (b7 == HIGH)  
digitalWrite(led[6], HIGH); if (b6 == HIGH) digitalWrite(led[5], HIGH); if (b5 == HIGH)  
digitalWrite(led[4], HIGH); if (b4 == HIGH) digitalWrite(led[3], HIGH); if (b3 == HIGH)  
digitalWrite(led[2], HIGH); if (b2 == HIGH) digitalWrite(led[1], HIGH); if (b1 == HIGH)  
digitalWrite(led[0], HIGH); } jelaskan program berikut per baris">klik
```

disini</div><div>Listing Program <a

href="https://drive.google.com/file/d/1IZFbAdOu0WACAbek7mRxb0HWtEsCr1--/view?usp=shari
ng">klik disini</div><div>datasheet arudino <a

href="https://drive.google.com/file/d/1WIZjOBUokzBjwLPkaJ37Ov3GmsLOpTEQ/view?usp=driv
e_link">klik disini</div></div><div><div>Datasheet Button <a

href="https://drive.google.com/file/d/1z2QjkW654vT8cH7Ak9hpLZeX883VfQnW/view?usp=shari
ng">klik disini</div><div>Datasheet LED <a

href="https://drive.google.com/uc?export=download&id=1uVoq33LBcoMcfZhbBx5H-mTVW
lvIbGtl">klik disini</div><div class="separator" style="clear: both; text-align: center;"><br

style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif;

font-size: 13.2px;" /></div></div><div class="separator" style="clear: both; text-align:

center;"><br style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans,
sans-serif; font-size: 13.2px;" /></div>