```
<div style="text-align: center;"><a
href="https://syarif213034.blogspot.com/2023/08/praktikum-uc-1.html"><span style="font-family:
times;">[KEMBALI KE MENU SEBELUMNYA]</span></a></div><div style="text-align: center;"><span
style="font-family: times;"><br /></span></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;">

<span style="font-family: times;"><b><a name="home">DAFTAR ISI</a></b>

<br />

</span><div style="text-align: left;">

<a href="#P"><span style="font-family: times;">1. Prosedur</span></a></div>

<div style="text-align: left;">

<a href="#R"><span style="font-family: times;">2. Rangkaian Simulasi dan Prinsip
Kerja</span></a></div>

<div style="text-align: left;">

<a href="#FL"><span style="font-family: times;">3. Flowchart dan Listing Program</span></a></div>

<div style="text-align: left;">

<a href="#K"><span style="font-family: times;">4. Kondisi</span></a></div>

<div style="text-align: left;">

<a href="#VS"><span style="font-family: times;">5. Video Simulasi</span></a></div>

<div style="text-align: left;">

<a href="#L"><span style="font-family: times;">6. Download File</span></a></div></div><p
style="text-align: center;"><b style="text-align: left;"><span style="font-family: times; font-size:
small;"><span><a name="P">Percobaan 1 Kondisi 1<br /></a></span></span></b><b
style="text-align: left;"><span style="font-family: times; font-size: small;"><span><a name="P">Led
&amp; Switch</a></span></span></b></p><h3 style="text-align: justify;"><b style="text-align:
left;"><span style="font-family: times; font-size: small;"><span><a name="P">1.
Prosedur</a></span> <a href="#home">[Kembali]</a></span></b></h3><div><span
style="font-family: times; text-align: left;"><div><div style="background-color: white; border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"><ul style="text-align: left;"><li><span
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Rangkai semua
komponen </span></li><li>Buat program di aplikasi arduino IDE</li><li>Setelah selesai
masukkan program ke arduino </li><li>Jalankan program pada simulasi dan cobakan sesuai
kondisi</li></ul></div></div><div><b><span><span><a name="R">2. Rangkaian Simulasi dan Prinsip
Kerja </a></span> <a href="#home">[Kembali]</a></span></b></div><div><b><br
/></b></div><div><ul style="text-align: left;"><li>Rangkaian</li></ul></div><div><div
class="separator" style="clear: both; font-weight: bold; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjRD_VPuTz3kFY9zO83gcPOzxf
wj__OO59EFuwl7vClkBANil5WrNLW3HDkH5kdKmNLAhflgca5rpSZit-U4rWAmZiAEdQFKJXpTjLb3odPgi
```

oCe8j3ocGoUvHpkSQKKSzHKvdQ6NSGtKSm_tttI_-xjuctHgzYPUYgUFgtWT6IPKDbkkWRk3TgOocNTvd6/s1015/Screenshot%202024-02-28%20010734.png" style="margin-left: 1em; margin-right: 1em;"></div><ul style="text-align: left;">
Prinsip Kerja
<div><div>Pada percobaan 1 Kondisi 1 diminta untuk 1 button menghidupkan 3 LED, 2 button menghidupkan 6 LED blink. </div><div>Disini kita menggunakan 2 buah button yang mana terhubung ke arduino A1 dan A2 dan disana juga terdapat resistor agar logika menjadi 0/1 (biru/merah) pada kaki A1 dan A2, jika tidak ada resistor maka logika tidak ada (abu) . Terdapat 6 LED blue yang dijadikan output yang terhubung ke resistor dan kaki 13, 12, 11, 7 dan 6 pada Arduino. LED dapat aktif ketika kita menekan button nah disini button ini berjenis pull down.</div></div>
</div><div><div class="separator" style="clear: both; text-align: center;">
</div></div><div><div style="font-weight: bold; text-align: justify;"><b style="text-align: left;">3. Flowchart dan Listing Program [Kembali]</div><div style="text-align: justify;">
<li style="text-align: left;">Flowchart
<div class="separator" style="clear: both; text-align: center;"></div></div><div style="text-align: justify;">
<li style="text-align: left;">Listing Program
<div style="text-align: left;"><div style="background-color: white; color: #4e5b61; font-family: Consolas, "Courier New", monospace; font-size: 14px; line-height: 19px; white-space: pre;"><div>#define button1 A1</div><div>#define button2 A2</div><div>#define led1 13</div><div>#define led2 12</div><div>#define led3 11</div><div>#define led4 7</div><div>#define led5 6</div><div>#define led6 5</div>
<div>void setup() {</div><div> pinMode(button1,

INPUT);</div><div> pinMode(button2, INPUT);</div><div> pinMode(led1, OUTPUT);</div><div> pinMode(led2, OUTPUT);</div><div> pinMode(led3, OUTPUT);</div><div> pinMode(led4, OUTPUT);</div><div> pinMode(led5, OUTPUT);</div><div> pinMode(led6, OUTPUT);</div><div>}</div><div>void led_hidup(){</div><div> digitalWrite(led1, 1);</div><div> digitalWrite(led2, 1);</div><div> digitalWrite(led3, 1);</div><div> digitalWrite(led4, 1);</div><div> digitalWrite(led5, 1);</div><div> digitalWrite(led6, 1);</div><div>}</div>
<div>void led_mati(){</div><div> digitalWrite(led1, 0);</div><div> digitalWrite(led2, 0);</div><div> digitalWrite(led3, 0);</div><div> digitalWrite(led4, 0);</div><div> digitalWrite(led5, 0);</div><div> digitalWrite(led6, 0);</div><div>}</div><div>void loop() {</div><div> int btn1 = digitalRead(button1);</div><div> <span

```cpp
int btn2 = digitalRead(button2);
if (btn1 == 1 && btn2 == 0){
  digitalWrite(led1, 1);
  digitalWrite(led2, 1);
  digitalWrite(led3, 1);
  digitalWrite(led4, 0);
  digitalWrite(led5, 0);
  digitalWrite(led6, 0);
}
else if (btn1 == 0 && btn2 == 1){
  digitalWrite(led1, 1);
  digitalWrite(led2, 1);
  digitalWrite(led3, 1);
  digitalWrite(led4, 0);
  digitalWrite(led5, 0);
  digitalWrite(led6, 0);
}
else if (btn1 == 1 && btn2 == 1){
  led_hidup();
  delay(100);
  led_mati();
  delay(100);
}
else
```

#434f54;">{</div><div>   led_mati();</div><div> }</div>
<div>}</div></div></div></div><div><div class="separator" style="clear: both; text-align: center;">
</div></div><p style="text-align: justify;"><b style="text-align: left;">4. Kondisi [Kembali]</p><div style="text-align: justify;">1 button menghidupkan 3 LED, 2 button menghidupkan 6 LED blink   </div><div style="text-align: justify;">
</div><p style="text-align: justify;"><b style="text-align: left;"></p><div style="text-align: -webkit-center;"><p style="text-align: justify;"><b style="text-align: left;">5. Video Simulasi [Kembali]</p><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="b13d6bdb48931d77" height="266" id="BLOG_video-b13d6bdb48931d77" width="320"></object></div><div class="separator" style="clear: both; text-align: center;">
</div><p></p><div><b style="text-align: left;"><div style="font-weight: 400; text-align: -webkit-center;"><p style="text-align: justify;"><b style="text-align: left;">6. Download File [Kembali]</p></div></div></s pan></div></div></div><div style="text-align: left;"><b style="text-align: justify;">x HTML klik disini </div><div style="text-align: left;">Simulasi klik disini
</div><div style="text-align: left;">Gambar Simulasi klik disini
Video Simulasi   klik disini
Listring Program klik disini</div><p style="text-align: left;">
</p></center>