

```
<div style="text-align: center;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><a href="https://muhammadmirzaavicena211018.blogspot.com/2024/03/modul-2.html" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">[KEMBALI KE MENU SEBELUMNYA]</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span style="color: #ffa400; font-family: times; font-size: medium;"><br /></span></div><center style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="background-color: white; border: 2px dashed rgb(23, 128, 221); box-sizing: border-box; height: 240px; margin: 0px; overflow: auto; padding: 10px; width: 330px;"><span style="color: #ffa400; font-family: times; font-size: medium;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">

  <a name="home" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; transition: all 0.3s ease 0s;">DAFTAR ISI</a></b><br style="box-sizing: border-box;" /></span><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#prosedur" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">1. Prosedur</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#hardware" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">2. Hardware dan Diagram Blok</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#rangkaian" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">3. Rangkaian Simulasi dan Prinsip Kerja</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#flowchart" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">4. Flowchart dan Listing Program</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#kondisi" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">5. Kondisi</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

  <a href="#demo" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: #ffa400; font-family: times; font-size: medium;">6. Video Demo</span></a></div></div></div></div>
```

[7. Download File</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"></div><h1 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; line-height: 30px; margin: 0px 0px 7px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; padding-top: 4px !important; padding: 4px 0px 0px; position: relative; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">Percobaan III</h1><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"> Timer Arduino</div><h3 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; line-height: 29px; margin: 0px 0px 7px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; padding-top: 4px !important; padding: 4px 0px 0px; position: relative; text-align: justify; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">](#download)

1. Prosedur [Kembali]</h3><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><ul style="border: 0px; box-sizing: border-box; line-height: 1.2; margin: 0px 0px 20px 20px; padding: 0px 0px 0px 20px; text-align: left;"><li style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Rangkailah seperti rangkaian berikut<li style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Buka Arduino IDE dan masukan listing program<li style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Upload program ke arduino<li style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Variasikan tombol yang ditekan dan amati keluarannya pada LCD</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><h3 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; line-height: 29px; margin: 0px 0px 7px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; padding-top: 4px !important; padding: 4px 0px 0px; position: relative; text-align: justify; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">

G58fgJBRJzdQnAgNJ4rxOjElvRMOWv3gYpb-guVCocjfkV-hzwmlEpnQFM2w_TfY5SuGPNh
qFvjF2kyi0LSd7-to6nWLbzCvW7vbHqYZLrZZbCM7iogKiuWjh4UqfdXIW2HhFx9FdLNSZ8K
9wkep5jhfM2EgodKhMgqPCjM2obE0/w200-h200/dipswitch8.jpg" width="200"
></div>
</div><div>
3. LCD
</div><div><div class="separator"
style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj7uPevYBR4wMoZ_O0
aLcJ7jA1Lu-W1_Qjlkj5kkMdwLJIW_IK2-OBSJWoFUKUayK4vf-pLI7SuNnfogv7eeznYmXy-m
buzngDqMV8BePkj-lZ7ukuK9InFTJNagXSdATU_RI7lxlcm6ypwY6r53jfgLU9zuBege9Yo_5L
dvYvYnQQ11wPuVArH98iqgo/s225/download%20(1).jpeg" style="margin-left: 1em;
margin-right: 1em;"></div><div
class="separator" style="clear: both; text-align: center;">
</div>
</div><div> 4. Kabel
jumper
</div><div><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgUbYr9dSof5j69YvFXF
RRtsFEWZ3TZvnw8qMK99dsjLGQFgsLhbD8J15akZGjHqkH4d1PVrCFjpLInvVAQWHlkQZa
ouHnVR7E_VL0YVAqDFoZ0cAAgbpbJ6aslfBJInRcP3pxBxsvoVmL9157fitQiBW60KRmld2O
ZORqHvl2NEjQR-r2F5RFmEkEfAPU/s320/jumper%20fm.jpg" style="margin-left: 1em;
margin-right: 1em;"></div><div class="separator" style="clear: both; text-align: center;">
</div> 5.
Breadboard</div><div><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiZMwixnPgjFVezUlv5-3
HQff6D8005VbnyGAza404B6KJBANSnUSBqorMa_mgYtswG3gsfRrm2eMO8Hi3GwRqv3lr
H8BeiteFMAbXWIH1FbWs1dkoybjYPxfMaFxFJOZQfkeL9RhULJXyOI3gYpqx0w5G_5xmlJZ
DfhO3zuAEOJz1X9EyJAUDrmeXf-Wxc/s320/679813_439a59b9-284e-4573-949d-12ab0d5
d002a%20(1).jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both;
text-align: left;"> 6. Resistor
</div><div class="separator"
style="clear: both; text-align: center;"><div class="separator" style="clear: both; text-align:
center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiG4jwMVYPnRt9LS8EI


```

style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><b style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><br /></b></div><div style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEha7AlfHJQTk5mlh9SsEX83tYZ8Fkv4xehVC9KHQGrgM7XuYXjwWhAzyGeADVU8tokrNvb_qytPX6ZvOhyphenhyphenyTPUsKeTMEkApKvEQFJm6YekNM-X98tJlmZLlaGuthfn07srO5Hgxp1_omyM-SXt02Vfokp1dLIWDjibRBdtgDJVeWwNXnX2M3v6Q3bXEPYq/s4000/p3m2.jpg" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;"><br /></div>Prinsip Kerja :</div><div style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><br /></div><div style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><div style="text-align: justify;"><span>&nbsp; &nbsp; Pada percobaan menggunakan komponen berupa arduino uno sebagai kontroler, dip switch sebagai inputan yang terhubung dengan arduino uno menggunakan kabel jumper, arduino uno akan memberikan keluaran berupa angka atau hitung mundur dari 0-9.</span></div><div style="text-align: justify;"><span><span style="background-color: white; color: #0d0d0d; font-family: Söhne, ui-sans-serif, system-ui, -apple-system, &quot;Segoe UI&quot;, Roboto, Ubuntu, Cantarell, &quot;Noto Sans&quot;, sans-serif, &quot;Helvetica Neue&quot;, Arial, &quot;Apple Color Emoji&quot;, &quot;Segoe UI Emoji&quot;, &quot;Segoe UI Symbol&quot;, &quot;Noto Color Emoji&quot;; font-size: 16px; text-align: start; white-space-collapse: preserve;">Implementasi kontrol sakelar dalam sebuah sistem memerlukan perlakuan khusus untuk mencegah efek bouncing yang dapat mengganggu stabilitas respons. Untuk mengatasi hal ini, penggunaan fungsi millis() sangatlah penting dalam memeriksa waktu terakhir pembacaan sakelar. Dengan memanfaatkan fungsi ini sebagai timer pada program, maka debouncing dapat dilakukan secara tepat, menghindari respons yang tidak stabil akibat bouncing pada tombol (switch). Misalnya, ketika tombol pertama (sw1) ditekan, program akan menambahkan angka pada display digit yang aktif setiap detiknya, dengan pengubahan digit yang bergantian antara D1 dan D2. Begitu juga dengan tombol kedua (sw2) yang, ketika ditekan, akan menampilkan urutan angka secara berurutan dari 9 hingga 0 pada display digit yang aktif. Pengaturan waktu debouncing yang lebih panjang, misalnya 2 detik, dapat diterapkan saat tombol ketiga (sw3) ditekan, sehingga penambahan angka pada display digit yang aktif akan bergantian antara D1 dan D2 dengan waktu debouncing yang lebih panjang. Sementara itu, tombol keempat (sw4) akan menghasilkan tindakan serupa seperti sw2, namun dengan penambahan waktu debouncing 2 detik pula. Dengan pendekatan ini, sistem dapat beroperasi dengan lebih stabil dan responsif terhadap input dari pengguna.</span></span></div></div><div style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><span style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><span style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;"><h3 style="border: 0px; border-sizing: border-box; letter-spacing: 0px; line-height: 29px; margin: 0px 0px 7px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; padding-top: 4px !important; padding: 4px 0px 0px; position: relative; text-align: justify; text-indent: -1px;"><b style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"><span style="border: 0px; border-sizing: border-box; margin: 0px; padding: 0px;">

```

0px;">

4. Flowchart dan Listing Program [Kembali]</h3><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Flowchart:</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: center;">
</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Listing Program:</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define a 6</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define b 7</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define c 8</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define d 9</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define e 10</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define f 11</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define g 12</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define dp 13</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define D1 4</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define D2 5</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define Dsw1 A0</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define Dsw2 A1</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define Dsw3 A2</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define Dsw4 A3</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">bool sw1,sw2,sw3,sw4;</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">
</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">int segments[] = {a,b,c,d,e,f,g};</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">byte digitPatterns[10][7] = {</div><div style="border: 0px; box-sizing: border-box;

```

margin: 0px; padding: 0px;">&nbsp; {0, 0, 0, 0, 0, 0, 1}, // 0</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; {1, 0, 0, 1, 1, 1, 1}, // 1</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; {0, 0, 1, 0, 0,
1, 0}, // 2</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; {0, 0, 0, 0, 1, 1, 0}, // 3</div><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;">&nbsp; {1, 0, 0, 1, 1, 0, 0}, // 4&nbsp;</div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; {0, 1, 0, 0, 1, 0, 0}, //
5&nbsp;</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; {0, 1, 0, 0, 0, 0, 0}, // 6</div><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;">&nbsp; {0, 0, 0, 1, 1, 1, 1}, // 7</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; {0, 0, 0, 0, 0, 0, 0}, // 8</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; {0, 0, 0, 0, 1,
0, 0}&nbsp; // 9</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"><br /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">void setup() {</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; for (int i = 0; i &lt; 7; i++) {</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; pinMode(segments[i],
OUTPUT);</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; }</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; pinMode(dp, OUTPUT);</div><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;">&nbsp; pinMode(D1, OUTPUT);</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; pinMode(D2,
OUTPUT);</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; pinMode(Dsw1, INPUT_PULLUP);</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; pinMode(Dsw2,
INPUT_PULLUP);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; pinMode(Dsw3, INPUT_PULLUP);</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; pinMode(Dsw4,
INPUT_PULLUP);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; Serial.begin(9600);</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"></div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"><br /></div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">void number(int display) {</div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; if (display &gt;= 0
&amp; display &lt;= 9) {</div><div style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;">&nbsp; &nbsp; for (int i = 0; i &lt; 7; i++) {</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; digitalWrite(segments[i], digitPatterns[display][i]);</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; }</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; }</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"></div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"><br /></div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">void loop() {</div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; int sw1 =
digitalRead(Dsw1);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; int sw2 = digitalRead(Dsw2);</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; int sw3 =
digitalRead(Dsw3);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;

```

```
padding: 0px;">&nbsp; int sw4 = digitalRead(Dsw4);</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; static int digit = 1; // Digit yang
sedang ditampilkan (1 atau 2)</div><div style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;">&nbsp; static int count = 0; // Counter untuk digit</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; static
unsigned long lastTime = 0; // Waktu terakhir pembacaan tombol</div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br /></div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;">if (sw1 == LOW) {&nbsp;</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; if
(millis() - lastTime > 1000) { // Debouncing</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; lastTime =
millis();</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; &nbsp; &nbsp; &nbsp; count++;</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; if (count > 9)
{</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp;
&nbsp; &nbsp; &nbsp; &nbsp; count = 0;</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; }</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp;
&nbsp; &nbsp; if (digit == 1) {</div><div style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; digitalWrite(D1,
HIGH);</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; digitalWrite(D2, LOW);</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; number(count);</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; digit
= 2;</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; &nbsp; &nbsp; &nbsp; } else {</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
digitalWrite(D1, LOW);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; digitalWrite(D2,
HIGH);</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; number(count);</div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp;
&nbsp; digit = 1;</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; }</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"><br /></div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">else if (sw2 == LOW) {&nbsp;</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; if
(millis() - lastTime > 1000) { // Debouncing</div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; lastTime =
millis();</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;">&nbsp; &nbsp; &nbsp; &nbsp; digitalWrite(D1, HIGH);</div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp;
digitalWrite(D2, LOW);</div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">&nbsp; &nbsp; &nbsp; &nbsp; for (int i = 9; i >= 0; i--) {</div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; number(i);</div><div style="border: 0px; box-sizing:
```

[illegible]

```

} </div> <div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp;
&nbsp; </div> <div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"></div> <div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"></div> </span></div> <p style="border: 0px; box-sizing: border-box; margin: 0px
0px 15px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px; text-align: left;"><span style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;"><span style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;"><a name="kondisi">5. Kondisi</a></span>&nbsp;<a href="#home"
style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px;
text-decoration-line: none; transition: all 0.3s ease 0s;">[Kembali]</a></span></b></p> <div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align:
justify;"><span>&nbsp; &nbsp; &nbsp; Ketika salah satu switch pada dipswitch aktif maka
sevensegment akan menampilkan angka yang berupa count down dari angka 9-0 yang
nantinya akan ditampilkan pada dua sevensegment berbeda sesuai dengan switch yang
aktif</span><br /></div> <p style="border: 0px; box-sizing: border-box; margin: 0px 0px
15px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px; text-align: left;"></b></p> <div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px; text-align: -webkit-center;"><span style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"><span style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"><span style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"><p style="border: 0px; box-sizing: border-box;
margin: 0px 0px 15px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px; text-align: left;"><span style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"><span style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;"><a name="VS" style="border: 0px; box-sizing: border-box; color:
#597e00; margin: 0px; padding: 0px; transition: all 0.3s ease 0s;">

```

```

</a><a name="demo">

```

```

6. Video Demo&nbsp;</a></span><a href="#home" style="border: 0px; box-sizing:
border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition:
all 0.3s ease 0s;">[Kembali]</a></span></b></p> <p style="border: 0px; box-sizing:
border-box; margin: 0px 0px 15px; padding: 0px; text-align: justify;"></p> <div
class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen=""
class="BLOG_video_class" height="266"
src="https://www.youtube.com/embed/44ly7OjluFo" width="320"
youtube-src-id="44ly7OjluFo"></iframe></div> <div class="separator" style="clear: both;
text-align: center;"><br /></div> <p style="border: 0px; box-sizing: border-box; margin: 0px
0px 15px; padding: 0px;"></p> <div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"><div style="border: 0px; box-sizing: border-box; font-weight: 400; margin: 0px;
padding: 0px; text-align: -webkit-center;"><span style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px; text-align: left;"><span style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;"><span style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;"><p style="border: 0px; box-sizing: border-box; margin: 0px 0px 1px; padding:
0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px; text-align: left;"><span style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"><span style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">

```

```

<a name="download">

```

7. Download File

[\[Kembali\]](https://siska211021.blogspot.com/2024/03/la-1-modul-1.html)

HTML →

[klik disini](https://docs.google.com/document/d/1PtUV08tT0MLgHetp2AlnCol6GGrBdmUz9CRsjvCAWU/edit?usp=sharing)

Gambar Rangkaian →

[klik disini](https://drive.google.com/file/d/1Ow8MBFTMf0vBmuvthTzt0cGoRXYNYoBx/view?usp=drive_link)

Video Demo →

[klik disini](https://youtu.be/hM3KSfyiRag?si=jCiUlaPY-YQhiX85)

Listing Program →

[klik disini](https://drive.google.com/file/d/1phitmifxhLu1jl4apN4lpQSYBZV8FCm1/view?usp=sharing)

Datasheet Arduino

(<https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur>), auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-size: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">(<https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur>[\)](#), auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-size: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">)

0px; text-align: justify; vertical-align: baseline;">→ klik disini
Datasheet 7-Segment→ klik disini
Datasheet LCD→ <a href="https://drive.google.com/file/d/1GTFGrVIKEqT67PnE2HNNEOJGHLByEMCA/view?usp=drive_link" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 0px; box-sizing: border-box; color: #597e00; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit;

font-optical-sizing: inherit; font-size: inherit; font-stretch: inherit; font-style: inherit;
font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit;
margin: 0px; outline: none; padding: 0px; text-align: justify; text-decoration-line: none;
transition: all 0.3s ease 0s; vertical-align: baseline;">klik disini
<span style="border:
0px; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;
font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing:
inherit; font-size: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit;
font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding:
0px; text-align: justify; vertical-align: baseline;">Datasheet DIP Switch<span
style="border: 0px; box-sizing: border-box; cursor:
url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;
font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing:
inherit; font-size: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit;
font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding:
0px; text-align: justify; vertical-align: baseline;">→ <a
href="https://drive.google.com/file/d/1x7jwsidQTKK4zs-DrBTMChVm_mM9TT5M/view?usp=
sharing" style="background-attachment: initial; background-clip: initial; background-image:
initial; background-origin: initial; background-position: initial; background-repeat: initial;
background-size: initial; border: 0px; box-sizing: border-box; color: #597e00; cursor:
url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;
font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing:
inherit; font-size: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit;
font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; outline:
none; padding: 0px; text-align: justify; text-decoration-line: none; transition: all 0.3s ease 0s;
vertical-align: baseline;">klik disini</div></center></div>