

```

<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"><span>DAFTAR
ISI</span></a></b>
<br />
</span><div style="text-align: left;">
<a href="#P"><span style="color: #274e13; font-family: times;">1.
Prosedur</span></a></div>
<div style="text-align: left;">
<a href="#R"><span style="color: #274e13; font-family: times;">2. Rangkaian Simulasi dan
Prinsip Kerja</span></a></div>
<div style="text-align: left;">
<a href="#FL"><span style="color: #274e13; font-family: times;">3. Flowchart dan Listing
Program</span></a></div>
<div style="text-align: left;">
<a href="#K"><span style="color: #274e13; font-family: times;">4. Kondisi</span></a></div>
<div style="text-align: left;">
<a href="#VS"><span style="color: #274e13; font-family: times;">5. Video
Simulasi</span></a></div>
<div style="text-align: left;">
<a href="#L"><span style="color: #274e13; font-family: times;">6. Download
File</span></a></div></div><p style="text-align: center;"><span style="font-family:
times;"><b style="text-align: left;"><span style="font-size: small;"><span><a
name="P">Percobaan 6 Kondisi 5<br /></a></span></span></b><b>Push Button dan
LCD</b></span></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>&nbsp;<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;">Rangkailah semua komponen&nbsp;</span></li><li>Buat program di aplikasi arduino
IDE</li><li>Setelah selesai, masukkan program ke arduino&nbsp;</li><li>Jalankan program
pada simulasi dan lakukan sesuai kondisi</li></ul></div></div><div><b><span><span><a
name="R">2. Rangkaian Simulasi dan Prinsip Kerja&nbsp;</a></span>&nbsp;<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 style="text-align: left;"><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgbOA_fA92pAJXAJhO
w_UY-ibXA0oQ_nZKwJAqq2pNTjTVu5oRlclIOoohobke-4KE265kBZxEpg2Djz8BHBhvrwu4
3KJiDHPoWRS8jbUq4ENKO_ke-XWTShtaK11MPwCjuXW6W8PWkFaOnkWyznmtC4hF2g
Q8l-r7kWh5fFoWsFnUwqBRAa_K9QsCMpvM/s1038/P6K5.jpg" imageanchor="1"
style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;"><br /></div><ul style="text-align: left;"><li>Prinsip Kerja</li></ul><div><p><span>&nbsp; &nbsp; &nbsp; Pada rangkaian percobaan 6 Kondisi 5 ini menjelaskan&nbsp;</span><span style="font-size: 11pt; white-space-collapse: preserve;">Button 1 - 4 menampilkan "LEI" di kolom 1 ,button 5 - 8 menampilkan "DTE" di kolom 2.</span></p><p><span style="font-size: 11pt; white-space-collapse: preserve;"><span>&nbsp; &nbsp; &nbsp; </span>Pada rangkaian ini terdiri dari 8 button yang terhubung ke arduino sebagai input dari rangkaian ini. Yang mana untuk SW1-SW6 terhubung ke pin A0-A5 pada arduino sedangkan untuk SW7 dan SW8 terhubung pada pin 12 dan 13 pada arduino. Lalu akan dihubungkan pada output berupa LED yang akan menampilkan output ketika di jalankan. </span></p><p><span style="font-size: 11pt; white-space-collapse: preserve;"><span>&nbsp; &nbsp; &nbsp; </span>Pada arduino, dilakukan program dengan perintah jika belum ada button yang di tekan maka akan menampilkan kalimat "Silahkan tekan" pada baris 1 dan "Salah satu SW" pada baris 2. Lalu jika button 1-4 ditekan, maka output dari LCD akan menampilkan "LEI" pada baris pertama LCD. Jika button 5-8 ditekan, maka output dari LCD akan menampilkan "DTE" pada baris kedua.</span><br /></span></p><p><span>&nbsp; &nbsp; </span><br /></p></div></div><div><div class="separator" style="clear: both; text-align: center;"><br /></div><div><span style="text-align: left;"><span style="text-align: left;"><div style="font-weight: bold; text-align: justify;"><b style="text-align: left;"><span><span><a name="FL">3. Flowchart dan Listing Program</a></span>&nbsp;<span><a href="#home">[Kembali]</a></span></b></div><div style="text-align: justify;"><ul><li style="text-align: left;">Flowchart</li></ul><div class="separator" style="clear: both; text-align: center;"><br /></div><div style="text-align: justify;"><ul><li style="text-align: left;">Listing Program</li></ul></div><div><span style="text-align: left;"><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both; text-align: center;"><div style="text-align: justify;"><div>#include &lt;LiquidCrystal.h></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>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>bool Button1,Button2,Button3,Button4,Button5,Button6,Button7,Button8;</div><div>void setup() {</div><div>&nbsp;Serial.begin(9600);</div><div>&nbsp;lcd.begin(16,2);</div><div><br /></div><div>&nbsp;pinMode(PB1, INPUT);</div><div>&nbsp;pinMode(PB2, INPUT);</div><div>&nbsp;pinMode(PB3, INPUT);</div><div>&nbsp;pinMode(PB4, INPUT);</div><div>&nbsp;pinMode(PB5, INPUT);</div><div>&nbsp;pinMode(PB6, INPUT);</div><div>&nbsp;pinMode(PB7, INPUT);</div><div>&nbsp;pinMode(PB8, INPUT);</div><div>}</div><div>void loop() {</div><div>&nbsp;Button1 = digitalRead(PB1);</div><div>&nbsp;Button2 = digitalRead(PB2);</div><div>&nbsp;Button3 = digitalRead(PB3);</div><div>&nbsp;Button4 = digitalRead(PB4);</div><div>&nbsp;Button5 = digitalRead(PB5);</div><div>&nbsp;Button6 = digitalRead(PB6);</div><div>&nbsp;Button7 = digitalRead(PB7);</div><div>&nbsp;Button8 = digitalRead(PB8);&nbsp;</div><div>&nbsp;if(Button1==HIGH || Button2==HIGH ||

```

Button3==HIGH || Button4==HIGH){ // If any of the buttons 1 to 4 is
pressed</div><div> lcd.clear();</div><div> lcd.setCursor(0, 0); // Set the cursor
to the first column of the first row</div><div> lcd.print("LEI"); // Print
"LEI"</div><div> }</div><div> else if(Button5==HIGH || Button6==HIGH ||
Button7==HIGH || Button8==HIGH){ // If any of the buttons 5 to 8 is
pressed</div><div> lcd.clear();</div><div> lcd.setCursor(0, 1); // Set the cursor
to the first column of the second row</div><div> lcd.print("DTE"); // Print
"DTE"</div><div> }</div><div> else{ // If no button is
pressed</div><div> lcd.clear();</div><div> lcd.setCursor(0,
0);</div><div> lcd.print("Silahkan Tekan");</div><div> lcd.setCursor(0,
1);</div><div> lcd.print("Salah Satu
SW");</div><div> }</div><div> delay(100); // Add a delay to prevent the display
from changing too fast</div><div></div></div></div>
</div></div><p
style="text-align: justify;"><b style="text-align: left;">4.
Kondisi [Kembali]</p><div
style="text-align: justify;"><span style="text-align: left; white-space-collapse:
preserve;">disini kita memilih melakukan percobaan 6 pada kondisi 5, yaitu: Button 1 - 4
menampilkan "LEI" di kolom 2 ,button 5 - 8 menampilkan "DTE" di kolom 1</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;">
</div>
<div
class="separator" style="clear: both; text-align: center;">
</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;"><span style="text-align:
left;"><p style="text-align: justify;"><b style="text-align:
left;">6. Download File [Kembali]</p></div></div></sp
an></div></div></div><div style="text-align:
left;"><b style="text-align: justify;">HTML klik
disini </div><div style="text-align: left;">Rangkaian
Simulasi <a
href="https://drive.google.com/uc?export=download&id=12quWmX9r7ZSTHMA8SnUvg
F3HtnogKhuw" style="text-align: justify;">klik disini</div><div style="text-align:
left;">Video
Simulasi <a
href="https://drive.google.com/uc?export=download&id=1qwsIlg3xbTja9ZMNKIVCBEM
MSwfKaN7qU" style="text-align: justify;">klik disini<a
href="https://drive.google.com/uc?export=download&id=1kvudt9awTU9ulzXHErfqYgES
EmiCrXad" style="text-align: justify;">
</div><div style="text-align:
left;">Listing Program <a
href="https://drive.google.com/uc?export=download&id=1GgzJFoPbOG9elKaWF-1TXq

```

[illegible]