

```
<a name="home">
</a>
<span style="font-family: times;"><br />
</span><div style="text-align: center;">
<span style="color: black; font-family: times;"><a
href="https://renaldi217003.blogspot.com/p/modul-i.html">[KEMBALI KE MENU
SEBELUMNYA]</a></span></div>
<span style="font-family: times;"><br />
</span><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>DAFTAR ISI</b>
<br />
</span><div style="text-align: left;">
<a href="#kondisi"><span style="color: black; font-family: times;">1. Prosedur</span></a></div>
<div style="text-align: left;">
<a href="#hardware"><span style="color: black; font-family: times;">2. Hardware Dan Diagram
Blok</span></a></div>
<div style="text-align: left;">
<a href="#rangkaian"><span style="color: black; font-family: times;">3. Rangkaian Simulasi Dan Prinsip
Kerja</span></a></div>
<div style="text-align: left;">
<a href="#flowchart"><span style="color: black; font-family: times;">4.Flowchart dan Listing
Program</span></a></div>
<div style="text-align: left;">
<a href="#listing"><span style="color: black; font-family: times;">5. Kondisi</span></a></div>
<div style="text-align: left;">
<a href="#Video"><span style="color: black; font-family: times;">6.Video Simulasi</span></a></div>
<div style="text-align: left;">
<a href="#File"><span style="color: black; font-family: times;">7. Download File</span></a></div><div
style="text-align: left;"><br /></div></div></center><div><span style="background-color: white; outline:
0px; transition: all 0.3s ease 0s;"><span style="outline: 0px; transition: all 0.3s ease 0s;"><span></span></span>
```

style="outline: 0px; transition: all 0.3s ease 0s;"><h1 style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS", Trebuchet, Verdana, sans-serif; font-size: 15px; font-weight: bold; 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-align: -webkit-center; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
</h1><h1 style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS", Trebuchet, Verdana, sans-serif; font-weight: bold; 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-align: -webkit-center; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">Percobaan VI</h1><h1 style="font-family: times, "times new roman", serif; font-weight: bold; outline: 0px; text-align: center; transition: all 0.3s ease 0s;"></h1><h1 style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS", Trebuchet, Verdana, sans-serif; font-weight: 400; margin: 0px; padding: 0px; text-align: center;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"> Push Button DAN LCD</h1><h3 style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS", Trebuchet, Verdana, sans-serif; font-size: 15px; font-weight: bold; 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;">1. Prosedur [Kembali]</h3><h1 style="font-family: times, "times new roman", serif; font-size: 15px; font-weight: bold; outline: 0px; text-align: center; transition: all 0.3s ease 0s;"><div style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS", Trebuchet, Verdana, sans-serif; font-size: 13.2px; font-weight: 400; 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></h1><h3 style="border: 0px; box-sizing: border-box; font-family: times, "times new roman", serif; font-size: 15px; font-weight: bold; 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;">2. Hardware dan Diagram Blok [Kembali]</h3><h1 style="outline: 0px; text-align: center; transition: all 0.3s ease 0s;"><div style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS"; Trebuchet, Verdana, sans-serif; font-size: 13.2px; font-weight: 400; margin: 0px; padding: 0px;">
<div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px;">Gambar 1. Rangkaian Percobaan 6<div style="font-family: times; font-size: medium; font-weight: 400;"> </div><div style="font-family: times; font-size: medium; font-weight: 400;">
</div><div style="font-family: times; font-size: medium; font-weight: 400;"> 1. Arduino Uno</div><div style="font-family: times; font-size: medium; font-weight: 400;"><div class="separator" style="clear: both; text-align: center;"></div>
</div><div class="separator" style="clear: both; text-align: center;">
</div></div><div style="font-family: times; font-size: medium; font-weight: 400;">
</div><div style="font-family: times; font-size: medium; font-weight: 400;"> 2. switch spdt
</div><div style="font-family: times; font-size: medium; font-weight: 400;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align:

center;"><a
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qEq2cMVCL._AC_UF894,1000_QL80_.jpg" style="margin-left: 1em; margin-right: 1em;
text-decoration-line: none;"></div>
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center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div>
</div><div style="font-family: times; font-size: medium; font-weight: 400;"> 3. LCD
</div><div style="font-family: times; font-size: medium; font-weight: 400;"><div class="separator"
style="clear: both; text-align: center;">

<a
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59/images.jpeg" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; text-align:
center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div>
</div><div style="font-family: times; font-size: medium; font-weight: 400;"> 4. Kabel
jumper
</div><div style="font-family: times; font-size: medium; font-weight: 400;"><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEi0mKntstK_zRUU9WUP-J6QV-bVV
unr0zi-P-4t6hOoULnir4gAYpeMUayFWRZZZQZdUswe2aW0EiE3K5gheuh_vAp0haYJn2wfYe36MjPgeGyF2h
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0/male-to-female-2.jpg" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both;
text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;">
</div> 5. Breadboard</div><div style="font-family: times; font-size: medium;
font-weight: 400;"><div class="separator" style="clear: both; text-align: center;"><div class="separator"

style="clear: both; text-align: center; "></div>

</div><div class="separator" style="clear: both; text-align: center; ">
</div></div><div style="font-family: times; font-size: medium; font-weight: 400; ">
</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; ">Diagram Blok:</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; "><br style="box-sizing: border-box; "/></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 style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; "><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; ">3. Rangkaian Simulasi dan Prinsip Kerja [Kembali]</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; "><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; ">
</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: bold; margin: 0px; padding: 0px; "><div class="separator" style="clear: both; font-weight: 400; text-align: center; "><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEglQwZ_RM0G-YLtb07p19mS_vyB GBn2VZKcPlmW3iPVxZukAmQUpqTQVvBrZzv2mRIKHkVizX90tMcW6phN6-ZpFbKwja_HzThyQBjEWn9azb wi-luUp5IU9h5mDeUDZdjQh2mWQCnmEb-pDUTPtsqzv4UNhYTxdk-7fJjTrJgmFOkR9N21I5g8qM8lsj5u/s1

600/WhatsApp%20Image%202024-03-21%20at%2014.01.07.jpeg" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; font-weight: 400; text-align: center;">
</div>=> Prinsip Kerja :

<div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px;">
</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="font-family: times, "times new roman"; serif; text-align: justify;"> Dalam percobaan ke-6, Arduino mengambil input dari push button yang terhubung ke pin-pin analog yaitu dari PB1 sampai PB6 dan pada pin digital dari PB7 sampai PB8. Push Button berguna untuk sumber masukan yang mengirimkan sinyal menuju Arduino. Respons yang dihasilkan oleh arduino dan ditampilkan pada layar LCD yang terhubung ditentukan oleh kondisi masukan dari Push Button. Dalam program di arduino IDE , saat tombol dengan warna merah ditekan misalnya, maka tulisan akan muncul di layar LCD yaitu Merah yang terdapat di LCD. Begitu pula Saat tombol dengan warna putih ditekan, maka tulisan akan ditampilkan di layar LCD yaitu Putih yang terdapat di LCD. Begitu juga saat tombol dengan warna hijau, biru, atau putih ditekan, masing-masing akan menampilkan tulisan yang sesuai dengan warnanya di layar LCD, mengapa sesuai dengan warnanya? nah itu karena telah diprogram di program arduino IDE yaitu </div><div style="font-family: times, "times new roman"; serif; text-align: justify;">"else if(Button8==HIGH & Button2==LOW & Button3==LOW & Button4==LOW & Button5==LOW </div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; text-align: justify;">& Button6==LOW & Button7==LOW & Button1==LOW){</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; text-align: justify;"> lcd.clear();</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; text-align: justify;"> lcd.setCursor(0, 1);</div><div style="border: 0px; box-sizing: border-box; font-family: times; font-size: medium; font-weight: 400; margin: 0px; padding: 0px; text-align: justify;"> lcd.print("Putih");</div><div style="font-family: times, "times new roman"; serif; text-align: justify;"> }.</div></div></div></h1><h3 style="border: 0px; box-sizing: border-box; font-family: times, "times new roman"; serif; font-size: 15px; font-weight: bold; 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;"><span style="border: 0px;

box-sizing: border-box; font-size: medium; margin: 0px; padding: 0px;">4. Flowchart dan Listing Program [Kembali]</h3><h1 style="font-family: times, "times new roman"; serif; font-size: 15px; outline: 0px; text-align: center; transition: all 0.3s ease 0s;"><div style="border: 0px; box-sizing: border-box; font-family: "Trebuchet MS"; Trebuchet, Verdana, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">=> Flowchart:</div><div style="border: 0px; box-sizing: border-box; font-weight: 400; margin: 0px; padding: 0px;">
</div><div class="separator" style="clear: both; font-weight: 400; text-align: center;"></div>
<div class="separator" style="clear: both; font-weight: 400; text-align: center;">
</div>
<div style="border: 0px; box-sizing: border-box; font-weight: 400; 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; font-weight: 400; margin: 0px; padding: 0px;">
</div><div style="border: 0px; box-sizing: border-box; font-weight: 400; margin: 0px; padding: 0px; text-align: justify;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#include <LiquidCrystal.h></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define PB1 A0</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">#define PB2 A1</div><div style="border: 0px; box-sizing: border-box;


```
Button5==LOW&nbsp;</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;"><span style="color: #0b5394;">& Button6==LOW & Button7==LOW &
Button8==LOW)</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"><span style="color: #0b5394;">&nbsp;lcd.clear();</span></div><div style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;"><span style="color: #0b5394;">&nbsp;lcd.setCursor(0,
0);</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span
style="color: #0b5394;">&nbsp;lcd.print("Silahkan Tekan");</span></div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"><span style="color:
#0b5394;">&nbsp;lcd.setCursor(0, 1);</span></div><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;"><span style="color: #0b5394;">&nbsp;lcd.print("Salah Satu
SW");</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span
style="color: #0b5394;">&nbsp;}</span></div><div style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;"><span style="color: #0b5394;">&nbsp;else</span></div><div style="border: 0px;
box-sizing: border-box; margin: 0px; padding: 0px;"><span style="color:
#0b5394;">&nbsp;lcd.clear();</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;"><span style="color: #0b5394;">&nbsp;lcd.setCursor(0, 0);</span></div><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span style="color:
#0b5394;">&nbsp;lcd.print("Error");</span></div><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px;"><span style="color: #0b5394;">&nbsp;}</span></div><div style="border:
0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span style="color:
#0b5394;">&nbsp;delay(100); // Tambahkan penundaan agar tampilan tidak berubah terlalu
cepat</span></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span
style="color: #0b5394;"></span></div></div><div style="border: 0px; box-sizing: border-box;
font-weight: 400; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br
/></div></div></span></div><p style="border: 0px; box-sizing: border-box; font-weight: 400; 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="listing">5. Kondisi</a></span>&nbsp;<a
href="https://renaldi217003.blogspot.com/p/laporan-akhir-1.html">[Kembali]</a></span></b></p><div
style="border: 0px; box-sizing: border-box; font-weight: 400; margin: 0px; padding: 0px; text-align:
justify;"><span style="text-align: left;">Saat memencet salah satu button akan dibaca oleh Arduino dan,
arduino akan memberikan perintah untuk menampilkan pada layar LCD.</span></div><p style="border:
0px; box-sizing: border-box; font-weight: 400; 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;
font-weight: 400; 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="Video" style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;
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