

[illegible]

Keypad dan LCD

</div></div></div><div style="color: #38761d; font-weight: bold;">
</div>1. Prosedur[Kembali]<div><ul style="text-align: left;"><div style="background-color: white;">Rangkai semua komponen sesuai kondisi yang dipilih</div><div style="background-color: white;">Buat program di aplikasi arduino IDE</div><div style="background-color: white;">Setelah selesai masukkan program ke arduino (Verify and Upload)</div><div style="background-color: white;">Jalankan program pada simulasi dan cobakan sesuai dengan modul dan kondisi</div><div style="background-color: white;">Finish</div><div><div><div>2. Hardware dan diagram blok</div><div> [Kembali]</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><span style="font-family: verdana;
font-size: medium;">
<div class="separator" style="clear: both; text-align:
center;">
</div><span
style="font-family: verdana; font-size: medium;">

 <div><div style="background-color: white;"><span style="font-family:
verdana; font-size: medium;">1. LCD 2X16</div><div style="background-color:
white;">2. Arduino
Uno</div><div style="background-color: white;"><span style="font-family: verdana;
font-size: medium;">3. Keypad</div></div><div><span style="font-family:
verdana; font-size: medium;">
</div><div><span style="font-family:
verdana; font-size: medium;"> Digram Blok</div><div><span
style="font-family: verdana; font-size: medium;"><div class="separator" style="clear:
both; text-align: center;">
</div>
<div class="separator" style="clear: both;
text-align: center;"><a
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style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; text-align:
center;">
</div>
</div><div><span style="color:
#3d85c6; font-family: verdana; font-size: medium;">
3. Rangkaian Simulasi dan Prinsip
kerja

[Kembali]</div><div><span
style="font-family: verdana; font-size: medium;">
</div><div><span
style="font-family: verdana; font-size: medium;">Gambar Rangkaian Sebelum
Simulasi</div><div><span style="font-family: verdana; font-size:
medium;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><a
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1em; margin-right: 1em;"><img border="0" data-original-height="545"
data-original-width="1392" height="136"

[illegible]

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mikrokontroler akan mengenali posisi tombol tersebut dalam grid keypad dan menentukan
nilai yang sesuai.</span></span></div><div style="text-align: justify;"><span
style="font-family: verdana; font-size: medium;"><br /></span></div><div><span
style="background-color: white; color: #3d85c6; font-family: verdana; font-size: medium;">
<span style="font-weight: bold;"><span><span>4. FlowChart</span>
<span><a name="prinsip"></a></span>
<a href="#home">[Kembali]</a></span></span></span></div><div><span style="font-size:
medium;"><span style="font-family: verdana; font-weight: bold;"><div class="separator"
style="clear: both; text-align: center;"><br /></div><span style="background-color: white;">a
Listing Program<br /></span></span></span></div><div><span style="font-size:
medium;"><span style="font-weight: bold;"><span style="background-color: white;
font-family: verdana;"><br /></span></span></span></div><div><span style="font-size:
medium;"><span><span style="background-color: white; font-family: verdana;"><div
style="color: #4e5b61; line-height: 19px; white-space: pre;"><div style="line-height:
19px;"><div><div style="line-height: 19px;"><div><span style="color: #95a5a6;">// Include
the Keypad library</span></div><div><span style="color: #728e00;">#include</span>
<span style="color: #005c5f;">&lt;Keypad.h&gt;</span></div><div><span style="color:
#728e00;">#include</span> <span style="color:
#005c5f;">&lt;LiquidCrystal.h&gt;</span></div><div><span style="color: #95a5a6;">//
Constants for row and column sizes</span></div><div><span style="color:
#00979d;">const</span> byte ROWS = <span style="color:
#005c5f;">4</span>;</div><div><span style="color: #00979d;">const</span> byte COLS =
<span style="color: #005c5f;">4</span>;</div><div>LiquidCrystal <span style="color:
#d35400;">lcd</span><span style="color: #434f54;">(</span>A0, A1, A2, A3, A4, A5<span
style="color: #434f54;">)</span>;</div><div><span style="color: #95a5a6;">// Array to
represent keys on keypad</span></div><div><span style="color: #00979d;">char</span>
<span style="color: #d35400;">hexaKeys</span>[ROWS][COLS] = <span style="color:
#434f54;">{</span></div><div>&nbsp;<span style="color: #434f54;">{</span><span>'1', '2', '3',
'A'<span style="color: #434f54;">}</span></div><div>&nbsp;<span style="color:
#434f54;">{</span><span>'4', '5', '6', 'B'<span style="color:
#434f54;">}</span></div><div>&nbsp;<span style="color: #434f54;">{</span><span>'7', '8', '9',
'C'<span style="color: #434f54;">}</span></div><div>&nbsp;<span style="color:
#434f54;">{</span><span>*, '0', '#', 'D'<span style="color: #434f54;">}</span></div><div><span
style="color: #434f54;">}</span>;</div><div><span style="color: #95a5a6;">// Connections
to Arduino</span></div><div>byte <span style="color: #d35400;">rowPins</span>[ROWS]
= <span style="color: #434f54;">{</span><span style="color: #005c5f;">9</span>, <span
style="color: #005c5f;">8</span>, <span style="color: #005c5f;">7</span>, <span
style="color: #005c5f;">6</span><span style="color: #434f54;">}</span>;</div><div>byte
<span style="color: #d35400;">colPins</span>[COLS] = <span style="color:
#434f54;">{</span><span style="color: #005c5f;">5</span>, <span style="color:
#005c5f;">4</span>, <span style="color: #005c5f;">3</span>, <span style="color:
#005c5f;">2</span><span style="color: #434f54;">}</span>;</div><div><span style="color:
#95a5a6;">// Create keypad object</span></div><div>Keypad customKeypad = <span
style="color: #d35400;">Keypad</span><span style="color: #434f54;">(</span><span
style="color: #d35400;">makeKeymap</span><span style="color:
#434f54;">(</span>hexaKeys<span style="color: #434f54;">)</span>, rowPins, colPins,
ROWS, COLS<span style="color: #434f54;">)</span>;</div><div><span style="color:
#00979d;">void</span> <span style="color: #d35400;">setup</span><span style="color:
#00979d;">{</span>

```

#434f54;">()) {</div><div> // Setup serial monitor</div><div> Serial.begin(9600)</div><div> lcd.begin(16,2)</div><div>}</div><div>void loop({</div><div> // Get key value if pressed</div><div> char customKey = customKeypad.getKey()</div><div> if (customKey) {</div><div> // Print key value to serial monitor</div><div> lcd.setCursor(0,0)</div><div> lcd.print("Tombol :")</div><div> lcd.print(customKey)</div><div> }</div><div>}</div>
</div></div></div></div></div><div>b.

Flowchart</div><div>
</div><div class="separator" style="clear: both; text-align: center;"></div><div><div class="separator" style="clear: both; text-align: center;">
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</div><div>5. Video

Demo

[\[Kembali\]](#)

Percobaan 4

Keypad dan LCD

6. Video Demo

[\[Kembali\]](#)

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