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<a name="home">
</a>
<br />
<div style="text-align: center;">
<a href="https://aldif193011.blogspot.com/">[KEMBALI KE MENU SEBELUMNYA]</a></div>
<br />
<center>
<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow:
auto; padding: 10px; text-align: center; width: 330px;">
<b>DAFTAR ISI</b>
<br />
<div style="text-align: left;">
<a href="#Komponen">1.Komponen</a></div>
<div style="text-align: left;">
<a href="#Rangkaian">2. Rangkaian Simulasi</a></div>
<div style="text-align: left;">
<a href="#Flowchart">3.Flowchart</a></div>
<div style="text-align: left;">
<a href="#Listing">4. Listing Program</a></div>
<div style="text-align: left;">
<a href="#Video">5. Video Simulasi </a></div>
<div style="text-align: left;">
<a href="#Analisa">6. Analisa </a></div>
<div style="text-align: left;">
<a href="#Link">7. Link Download</a></div>
</div>
<br />
</center><p>&nbsp;<a href="https://www.blogger.com/u/1/null" name="komponen" style="color:
#cc6611; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.52px;
text-decoration-line: none;">&nbsp;</a><a name= "Komponen" ></a><b>1. Komponen</b><a href=
"#home">[KEMBALI] </a></p><div style="background-color: white; color: #222222; font-family:
Georgia, Utopia, &quot;Palatino Linotype&quot;, Palatino, serif; font-size: 16.94px;"></div><div
class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial,
Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><a
href="https://www.blogger.com/u/1/null" name="komponen" style="color: #cc6611;
text-decoration-line: none;"><span style="font-family: times;"></span></a><span style="font-family:
times;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444;
font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding:
0px;"><a href="https://www.blogger.com/u/1/null" name="komponen" style="color: #cc6611;
text-decoration-line: none;"></a><a
href="https://1.bp.blogspot.com/-AABOmRgSfR4/XWc6Z-RZRol/AAAAAAAAACow/VA4Z0pdfgksMHikRd
QFocG90aMMWv5XlWCEwYBhgL/s1600/Keypad.png" style="border: 0px; box-sizing: border-box;
color: #597e00; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease
0s;"></a></div><h3 style="border: 0px; box-sizing: border-box; color: #757575; font-family:
&quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 19px; 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-indent: -1px;"><span style="border: 0px; box-sizing:
border-box; font-size: small; margin: 0px; padding: 0px;">&nbsp;<span style="border: 0px; box-sizing:
border-box; font-weight: normal; margin: 0px; padding: 0px;">Keypad</span></span></h3><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family:
&quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><a

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href="https://1.bp.blogspot.com/-gAtG8HhZfPQ/XWc7ZNL5FhI/AAAAAAAAACpU/2u4riGXSwncfG25lj84xOKuGhrQR0bevgCLcBGAs/s1600/lcd.jpg" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"></div><h3 style="border: 0px; box-sizing: border-box; color: #757575; font-family: "open sans";, arial, helvetica, sans-serif; font-size: 19px; 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-indent: -1px;">LCD</h3><div style="border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans";, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: start;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><br style="box-sizing: border-box;" /><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: center;">Arduino UNO</div></div></div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div>2. Rangkaian Simulasi[KEMBALI]
<div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.52px;">
</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif;"><div class="separator" style="clear: both; font-size: 14.52px; text-align: center;"></div>
<div class="separator" style="clear: both; font-size: 14.52px; text-align: center;">
</div><div class="separator" style="clear: both; font-size: 14.52px; text-align: center;">
</div><div class="separator" style="clear: both; font-size: 14.52px;">
</div>3. Flowchart[KEMBALI]</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif;">
</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif;"><div class="separator" style="clear: both; font-size: 14.52px; text-align: center;"><div class="separator" style="clear: both;"></div>
<div class="separator" style="clear: both; font-size: 14.52px;">
</div>4. Listing Program[KEMBALI]</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.52px;">
</div><div class="separator" style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.52px;"><div class="separator" style="clear: both;"><div style="color: #434f54; font-family: Consolas, 'Courier New', monospace; font-size: 14px; line-height: 19px; white-space: pre;"><div>#include <LiquidCrystal.h> #95a5a6;">#include <Library <LCD </div><div>#include <Keypad.h> #95a5a6;">#include <Library <Keypad </div>
<div>const &byte &ROWS &= 4#95a5a6;">#include &Library &jumlah &baris </div><div>const &byte &COLS &= 4#95a5a6;">#include &Library &jumlah &kolom </div><div>char keys[ROWS][COLS] &= </div><div><div>{'1','2','3','A'},</div><div>{'4','5','6','B'},</div><div>#95a5a6;">#include &Library &Keypad &matriks &4x4</div><div><div>{'7','8','9','C'},</div><div>{'*','0','#','D'},</div><div><div>byte </div><div>rowPins[ROWS] &= 987#95a5a6;">#include &pin &yang &digunakan &untuk &baris </div><div><div>byte </div><div>colPins[COLS] &= 13121110#95a5a6;">#include &pin &yang &digunakan &untuk &kolom</div><div>#95a5a6;">#include &Library &dengan &pin &yang &digunakan &

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bsp;/span></div><div>LiquidCrystal&nbsp;<span style="color:
#d35400;">lcd</span>(A0,&nbsp;<span>A1,&nbsp;<span>A2,&nbsp;<span>A3,&nbsp;<span>A4,&nbsp;<span>A5);</div><div>Keypad&n
bsp;keypad&nbsp;<span style="color: #d35400;">Keypad</span>(&nbsp;<span style="color:
#d35400;">makeKeymap</span>(keys),&nbsp;<span>rowPins,&nbsp;<span>colPins,&nbsp;<span>ROWS,&nbsp;<span>COLS&nbs
p);</div><div><span style="color: #00979d;">void</span>&nbsp;<span style="color:
#d35400;">setup</span>()&nbsp;<span style="color:
#95a5a6;">&nbsp;<span>Semua&nbsp;<span>kode&nbsp;<span>dalam&nbsp;<span>fungsi&nbsp;<span>ini&nbsp;<span>akan&nbsp;<span>
dieksekusi&nbsp;<span>sekali</span></div><div><span style="color:
#95a5a6;">Set&nbsp;<span>baris&nbsp;<span>dan&nbsp;<span>kolom&nbsp;<span>LCD&nbsp;<span></span></div><div><sp
an style="color: #d35400;">lcd</span>.<span style="color: #d35400;">begin</span>(<span
style="color: #005c5f;">20</span>,&nbsp;<span style="color:
#005c5f;">4</span>);&nbsp;<span style="color: #d35400;">lcd</span>.<span
style="color: #d35400;">setCursor</span>(<span style="color: #005c5f;">1</span>,<span
style="color: #005c5f;">2</span>);&nbsp;<span style="color:
#d35400;">lcd</span>.<span style="color: #d35400;">setCursor</span>(<span style="color:
#005c5f;">4</span>,<span style="color: #005c5f;">3</span>);&nbsp;<span style="color:
#d35400;">lcd</span>.<span style="color: #d35400;">setCursor</span>(<span style="color:
#005c5f;">0</span>,<span style="color: #005c5f;">0</span>);</div><div><span
style="color: #00979d;">void</span>&nbsp;<span style="color:
#d35400;">loop</span>()&nbsp;<span style="color:
#95a5a6;">&nbsp;<span>Semua&nbsp;<span>kode&nbsp;<span>dalam&nbsp;<span>fungsi&nbsp;<span>ini&nbsp;<span>akan&nbsp;<span>dieksek
usi&nbsp;<span>berulang&nbsp;<span>char&nbsp;<span></span></div><div>key&nbsp;<span>=&nbsp;<span style="color:
#d35400;">keypad</span>.<span style="color: #d35400;">getKey</span>();<span style="color:
#95a5a6;">&nbsp;<span>Membaca&nbsp;<span>keypad</span></div><div><span style="color:
#728e00;">if</span>&nbsp;<span>(key)<span style="color:
#95a5a6;">&nbsp;<span>Kondisi&nbsp;<span>pilihan&nbsp;<span>jika&nbsp;<span>keypad&nbsp;<span>ditekan</span></div><div>{
</div><div><span style="color: #d35400;">lcd</span>.<span style="color:
#d35400;">print</span>(key);<span style="color:
#95a5a6;">&nbsp;<span>Menampilkan&nbsp;<span>input&nbsp;<span>dari&nbsp;<span>keypad&nbsp;<span>pada&nbsp;<span>LCD</span></span>
</div><div>}</div><div><br /></div></div></span></div><div class="separator"
style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica,
FreeSans, sans-serif; font-size: 14.52px;"><span style="font-family: times;"><span style="font-size:
medium;"><br /></span></span></div><div class="separator" style="background-color: white; clear:
both; color: #222222;"><span style="font-family: times;"><a name= "Video" ></a><b>5. Video
Simulasi</b><a href= "#home">[KEMBALI] </a></span></div><div class="separator"
style="background-color: white; clear: both; color: #222222; font-family: Arial, Tahoma, Helvetica,
FreeSans, sans-serif;"><div class="separator" style="clear: both; font-family: times; font-size: 14.52px;
text-align: center;"><br /></div><div class="separator" style="clear: both; font-size: 14.52px;
text-align: center;"><iframe allowfullscreen="" class="BLOG_video_class" height="266"
src="https://www.youtube.com/embed/3ni_x15KdNo" width="320"
youtube-src-id="3ni_x15KdNo"></iframe></div><br /><div class="separator" style="clear: both;
font-family: times; font-size: 14.52px; text-align: center;"><br /></div><div class="separator"
style="clear: both; font-family: times; font-size: 14.52px;"><br /></div><div class="separator"
style="clear: both; font-family: times;"><a name= "Analisa" ></a><b>6. Analisa</b><a href=
"#home">[KEMBALI] </a></div><div class="separator" style="clear: both; font-family: times; font-size:
14.52px;"><span style="font-size: medium;"><br /></span></div><div class="separator" style="clear:
both; font-family: times; font-size: 14.52px;"><p class="MsoListParagraphCxSpFirst"
style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; line-height: 14.25pt; margin-bottom: 0cm; text-indent: -18pt;"><span style="font-family:
'&quot;Times New Roman&quot;; serif; font-size: 12pt;">1.<span style="font-family: '&quot;Times New
Roman&quot;; font-size: 7pt; font-stretch: normal; font-variant-east-asian: normal;
font-variant-numeric: normal; line-height:
normal;">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span></span><span style="color: black; font-family:
'&quot;Times New Roman&quot;; serif; font-size: 12pt;">Kenapa Ketika kit menekan # akan muncul #
pada LCD</span><span style="font-family: '&quot;Times New Roman&quot;; serif; font-size:
12pt;"><o:p></o:p></span></p><p class="MsoListParagraphCxSpMiddle"
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style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm;">Jawab :<o:p></o:p></p><p align="justify" class="15" style="text-align: justify; text-justify: inter-ideograph;">Karena pada program yang dimasukkan pada adruino telah di setting untuk menampilkan output pada LCD sesuai dengan input yang ditekan pada keypad yang ada pada LCD.<o:p></o:p></p><p class="MsoListParagraphCxSpFirst" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm;"> </p><p class="MsoListParagraphCxSpMiddle" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm; text-indent: -18pt;">2. Apa fungsi pin anoda dan katoda pada LCD<o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm;">Jawab:<o:p></o:p></p><p align="justify" class="15" style="text-align: justify; text-justify: inter-ideograph;">Pin anoda dan katoda pada lcd berfungsi untuk menyalakan LED supaya dapat menampilkan hasil output, untuk pin anoda dihubungkan ke vcc dan pin katoda dihubungkan ke ground.<o:p></o:p></p><p class="MsoListParagraphCxSpMiddle" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm;"> </p><p class="MsoListParagraphCxSpMiddle" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; line-height: 14.25pt; margin-bottom: 0cm; text-indent: -18pt;">3. <span style="color: black; font-family:

"Times New Roman", serif; font-size: 12pt;">Kenapa LCD dihubungkan pada pin analog

Jawab :

LCD dihubungkan ke pin analog karena pada pin analog dapat digunakan untuk output sinyal digital serta dapat mengubah sinyal analog yang masuk menjadi nilai digital yang mudah diukur.

7. Link Download

[KEMBALI]

Video Simulasi

Download

Listing Program

Flowchart

File Html

Download