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<a name="home">

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

<a href="#">[KEMBALI KE MENU SEBELUMNYA]</a></div>

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<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="#kondisi">1. Prosedur</a></div>

<div style="text-align: left;">

<a href="#gambar">2. Hardware dan diagram blok</a></div>

<div style="text-align: left;">

<a href="#video">3. Rangkaian Simulasi dan Prinsip kerja</a></div>

<div style="text-align: left;">

<a href="#prinsip">4. FlowChart</a></div>

<div style="text-align: left;">

<a href="#link">5.Kondisi</a></div>

<div style="text-align: left;">

<a href="#link">6.Video Simulasi</a></div>

<div style="text-align: left;">

<a href="#link">7.Download File</a></div><div style="text-align: left;"><br
/></div></div></center><span><span><b><span style="color: #38761d; font-family: georgia;
font-size: medium;"><div style="text-align: center;">MODUL 1</div><div style="text-align:
center;">PERCOBAAN 4 KONDISI 6</div><div><span><span><b><span style="color: #38761d;
font-family: georgia; font-size: medium;"><br /></span></b></span></span></div>1.
Prosedur</span></b><span style="font-family: georgia; font-size: medium;"><b>
<a name="kondisi"></a>

<a href="#home"><span style="color:
#2b00fe;">[Kembali]</span></a></b></span></span></span><div><span style="color: #741b47;
font-family: georgia; font-size: medium;"><b><br /></b></span><div><span style="font-family:

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georgia; font-size: medium;"><div><ul style="text-align: left;"><li>Rangkai semua komponen sesuai kondisi yang dipilih</li><li> buat program di aplikasi arduino IDE</li><li> setelah selesai masukkan program ke arduino di proteus</li><li> jalankan program pada simulasi dan cobakan sesuai dengan modul dan kondisi</li><li> Selesai</li></ul></div><div style="color:
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2. Hardware dan diagram blok

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<a href="#home"><span style="color:
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Hardware

georgia; font-size: medium;"><div class="separator" style="clear: both; text-align: center;"><img border="0"

2.

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src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhyxsjEPrBMAeLaG_CemBny1iG
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r_hl-WJpPwlp-xW42gAYYe8W35tUhlT5x0x5y7GoeyAAChZQyeQXcP0_rehrRmFvSJQv3GP2ke3Zkhw/s32
0/LED.jpg" style="background-attachment: initial; background-clip: initial; background-image: initial;
background-origin: initial; background-position: initial; background-repeat: initial; background-size:
initial; border: 1px solid rgb(231, 231, 231); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; padding: 5px;
position: relative;" width="320" /></div><div style="background-color: white; font-family: Arial,

style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: start;">
</div><div class="separator" style="background-color: white; clear:

both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;"></div><div></div><div>3. Arduino Uno</div><div class="separator" style="clear: both; text-align: center;"></div><div></div><div>4. Keypad </div><div class="separator" style="clear: both; text-align: center;"></div><div></div><div>
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AKdQLNmbpsfXHII9o_jtWib-dgrYR86f9VpRuCJ8SHiN4zS3ad2QMv71rBZbPhoy9O3aURQQGooJlz5ZBeE/s1112/block%20p4k6.png" style="background-color: #fff9ee; color: #ff1900; font-family: verdana; font-size: medium; margin-left: 1em; margin-right: 1em;"></div>

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3. Rangkaian Simulasi dan Prinsip kerja

[Kembali]</div><div>
</div><div><b style="background-color: white; color: #990000; font-family: times, "times new roman"; serif; font-size: 16.5px;">→Gambar Rangkaian Sebelum Disimulasikan</div><div>
</div><div>
</div><div class="separator" style="clear: both; text-align: center;"><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>
</div><div><b style="background-color: white; font-family: times, "times new roman"; serif; font-size: 16.5px;">→Gambar Rangkaian Setelah Disimulasikan</div><div><span

`<span><a name="prinsip"></a></span>`

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<a href="#home"><span style="color:
#2b00fe;">[Kembali]</span></a></span></span></span></div><div><span style="font-family:
georgia; font-size: medium;"><span style="font-weight: bold;"><div class="separator" style="clear:
both; text-align: center;"><br /></div>a. Listing Program<nbsp;<br /><br
/></span></span></div><div><span><span style="color: #666666; font-family: georgia; font-size:
medium;"><i><div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color:
#728e00;">#include</span> <span style="color: #005c5f;">&lt;Keypad.h&gt;</span></div><br
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;" /><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">//
Constants for row and column sizes</span></div><div style="background-color: white; color:
#4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span
style="color: #00979d;">const</span> byte ROWS = <span style="color:
#005c5f;">4</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color:
#00979d;">const</span> byte COLS = <span style="color: #005c5f;">4</span></div><br
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;" /><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">//
Array to represent keys on keypad</span></div><div style="background-color: white; color:
#4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span
style="color: #00979d;">char</span> <span style="color: #d35400;">hexaKeys</span>[ROWS][COLS]
= <span style="color: #434f54;">{</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span
style="color: #434f54;">{</span><span>'1', '2', '3', 'A'<span style="color: #434f54;">}</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #434f54;">{</span><span>'4', '5', '6', 'B'<span
style="color: #434f54;">}</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span
style="color: #434f54;">{</span><span>'7', '8', '9', 'C'<span style="color: #434f54;">}</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #434f54;">{</span><span>*, '0', '#', 'D'<span
style="color: #434f54;">}</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color:
#434f54;">}</span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">// Connections to Arduino for LED</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #00979d;">const</span> byte <span style="color:
#d35400;">LED_Pins</span>[<span style="color: #005c5f;">4</span>] = <span style="color:
#434f54;">{</span><span>A0, A1, A2, A3<span style="color: #434f54;">}</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #00979d;">const</span> byte touchPin = <span
style="color: #005c5f;">13</span></div><br style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;" /><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:

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normal; white-space: pre;"><span style="color: #95a5a6;">// Create keypad object</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">Keypad customKeypad = <span style="color: #d35400;">Keypad</span><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: #434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">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: #434f54;">}</span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">// Create keypad object</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">Keypad customKeypad = <span style="color: #d35400;">Keypad</span><span style="color: #434f54;">{</span><span style="color: #d35400;">makeKeymap</span><span style="color: #434f54;">{</span><span style="color: #434f54;">}</span><span style="color: #434f54;">}, rowPins, colPins, ROWS, COLS</span></div><br
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;" /><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">//
Variables to track password entry</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;">String password =
<span style="color: #005c5f;">""</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color: #00979d;">int</span> passwordIndex = <span style="color: #005c5f;">0</span></div><br
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;" /><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;"><span style="color: #00979d;">void</span> <span style="color: #d35400;">setup</span><span style="color: #434f54;">(){</span> <span style="color: #434f54;">{</span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">&nbsp;</span> // Setup LED pins as OUTPUT</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp;<span style="color: #728e00;">for</span> <span style="color: #434f54;">{</span><span style="color: #00979d;">int</span> i = <span style="color: #005c5f;">0</span><span style="color: #434f54;">}</span> <span style="color: #434f54;">{</span><span style="color: #434f54;">{</span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp;<span style="color: #d35400;">pinMode</span><span style="color: #434f54;">{</span><span style="color: #d35400;">LED_Pins</span>[i], OUTPUT<span style="color: #434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp;<span style="color: #434f54;">}</span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:

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pre;"><span style="color: #95a5a6;">&nbsp; // Setup touch sensor pin as INPUT</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; <span style="color: #d35400;">pinMode</span><span
style="color: #434f54;"></span>touchPin, INPUT_PULLUP<span style="color:
#434f54;"></span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">&nbsp; // Setup serial monitor</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; <span style="color: #d35400;">Serial</span>.<span style="color:
#d35400;">begin</span><span style="color: #434f54;"></span><span style="color:
#005c5f;">9600</span><span style="color: #434f54;"></span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #434f54;"></span></div><br style="background-color: white; color:
#4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;" /><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #00979d;">void</span> <span style="color:
#d35400;">loop</span><span style="color: #434f54;">()</span> <span style="color:
#434f54;">{</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp; //
Get key value if pressed</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; <span
style="color: #00979d;">char</span> customKey = <span style="color:
#d35400;">customKeypad</span>.<span style="color: #d35400;">getKey</span><span style="color:
#434f54;">()</span></div><br style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">&nbsp; // Check if touch sensor is activated</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; <span style="color: #728e00;">if</span> <span style="color:
#434f54;"></span><span style="color: #d35400;">digitalRead</span><span style="color:
#434f54;"></span>touchPin<span style="color: #434f54;"></span> == HIGH<span style="color:
#434f54;"></span><span style="color: #434f54;"></span><span style="color: #434f54;"></span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; <span style="color: #728e00;">if</span> <span style="color: #434f54;">(</span><span>customKey &gt;= '0' &amp;&amp;
customKey &lt;= '9'</span><span style="color: #434f54;"></span> || customKey == '#'<span style="color:
#434f54;"></span><span style="color: #434f54;"></span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; <span style="color: #728e00;">if</span> <span style="color:
#434f54;"></span>customKey == '#'<span style="color: #434f54;"></span><span style="color:
#434f54;"></span><span style="color: #434f54;"></span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp;
&nbsp; &nbsp; &nbsp; // Reset password and turn off all LEDs if '#' key is pressed</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; password = <span style="color:
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#005c5f;">""</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp;
passwordIndex = <span style="color: #005c5f;">0</span></div><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color: #728e00;">for</span> <span style="color:
#434f54;">(</span><span style="color: #00979d;">int</span> i = <span style="color:
#005c5f;">0</span>; i &lt; <span style="color: #005c5f;">4</span>; i++<span style="color:
#434f54;">)</span><span style="color: #434f54;">(</span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#d35400;">digitalWrite</span><span style="color: #434f54;">(</span><span style="color:
#d35400;">LED_Pins</span>[i], LOW<span style="color: #434f54;">)</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; <span style="color:
#434f54;">}</span><span style="color: #728e00;">else</span> <span style="color:
#434f54;">(</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp;
&nbsp; &nbsp; &nbsp; // Append key to password</span></div><div style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; &nbsp; password += customKey;</div><br style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"
/><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium;
font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp; &nbsp; &nbsp; &nbsp;
// Increment password index</span></div><div style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; passwordIndex++;</div><br style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;" /><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp; &nbsp; &nbsp; &nbsp; // Activate
LEDs sequentially</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp;
<span style="color: #728e00;">for</span> <span style="color: #434f54;">(</span><span
style="color: #00979d;">int</span> i = <span style="color: #005c5f;">0</span>; i &lt;
passwordIndex; i++<span style="color: #434f54;">)</span> <span style="color:
#434f54;">(</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
<span style="color: #d35400;">digitalWrite</span><span style="color: #434f54;">(</span><span
style="color: #d35400;">LED_Pins</span>[i], HIGH<span style="color:
#434f54;">)</span></div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp;
<span style="color: #434f54;">}</span></div><br style="background-color: white; color: #4e5b61;
font-family: verdana; font-size: medium; font-style: normal; white-space: pre;" /><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp; &nbsp; &nbsp; &nbsp; // Turn off
any remaining LEDs from previous passwords</span></div><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
```

```
pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color: #728e00;">for</span> <span style="color:
#434f54;">(</span><span style="color: #00979d;">int</span> i = passwordIndex; i &lt; <span
style="color: #005c5f;">4</span>; i++<span style="color: #434f54;">)</span> <span style="color:
#434f54;">{</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
<span style="color: #d35400;">digitalWrite</span><span style="color: #434f54;">(</span><span
style="color: #d35400;">LED_Pins</span>[i], LOW<span style="color: #434f54;">)</span>;</div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;"><span style="color: #95a5a6;">&nbsp; &nbsp; &nbsp; &nbsp; // If password length is
4</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size:
medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#728e00;">if</span> <span style="color: #434f54;">(</span>passwordIndex == <span style="color:
#005c5f;">4</span><span style="color: #434f54;">)</span> <span style="color:
#434f54;">{</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp;
&nbsp; &nbsp; &nbsp; // Add delay after all LEDs are activated</span></div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#d35400;">delay</span><span style="color: #434f54;">(</span><span style="color:
#005c5f;">500</span><span style="color: #434f54;">)</span>;</div><br style="background-color:
white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"
/><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium;
font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp; &nbsp; &nbsp;
&nbsp; // Reset password and password index</span></div><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; &nbsp; &nbsp; &nbsp; password = <span style="color:
#005c5f;">""</span>;</div><div style="background-color: white; color: #4e5b61; font-family:
verdana; font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp;
&nbsp; passwordIndex = <span style="color: #005c5f;">0</span>;</div><div
style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style:
normal; white-space: pre;">&nbsp; &nbsp; &nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;">&nbsp; <span style="color:
#434f54;">}</span></div><br style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;" /><div style="background-color: white;
color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space:
pre;">&nbsp; <span style="color: #728e00;">if</span> <span style="color:
#434f54;">(</span>customKey<span style="color: #434f54;">)</span> <span style="color:
#434f54;">{</span></div><div style="background-color: white; color: #4e5b61; font-family: verdana;
font-size: medium; font-style: normal; white-space: pre;"><span style="color: #95a5a6;">&nbsp;
```

 // Print key value to serial monitor</div><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;">
 Serial.print("Tombol : ")</div><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"> Serial.println()</div><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;"> }</div><div style="background-color: white; color: #4e5b61; font-family: verdana; font-size: medium; font-style: normal; white-space: pre;">}</div></div></i></div><div>
</div><div>b.
Flowchart</div><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; color: #222222; font-family: verdana;"></div><div class="separator" style="clear: both; color: #222222; font-family: verdana;">
</div><div class="separator" style="clear: both; color: #222222; font-family: verdana;"><img border="0" data-original-height="577" data-original-width="331" height="764" src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiWuEJwerBIS33ot_KkFHxqzBk3kKrwCsAlZW-_I-8MIJgPMGFB1C3VeyHhf2KUZYehYgQDGfMcTI1wd3gXVKoDh3Dg7kY6t44vxawyDeOwwY1pdqZTwclZWM8w6jh6LIZjj_ZHilvDrLCx1HFuRfslrZWxh9mwYOJMpNA9T9e5EB6hB8lwsYHqvE3BTko/w439-h764/keypad%20P4K6%20slide%20ke%202.png" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 1px solid rgb(238, 238, 238);

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