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<div style="text-align: center;"><a href="#"><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>
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<center>
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<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow:  
auto; padding: 10px; text-align: center; width: 330px;">
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<span style="font-family: times;"><b><a name="home">DAFTAR ISI</a></b>
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<br />
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</span><div style="text-align: left;">
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<a href="#P"><span style="font-family: times;">1. Prosedur</span></a></div>
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<div style="text-align: left;">
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<a href="#H"><span style="font-family: times;">2. Hardware dan Diagram Blok</span></a></div>
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<div style="text-align: left;">
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<a href="#R"><span style="font-family: times;">3. Rangkaian Simulasi dan Prinsip  
Kerja</span></a></div>
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<div style="text-align: left;">
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<a href="#FL"><span style="font-family: times;">4. Flowchart dan Listing Program</span></a></div>
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<div style="text-align: left;">
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<a href="#VD"><span style="font-family: times;">5. Video Demo</span></a></div>
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<div style="text-align: left;">
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<a href="#K"><span style="font-family: times;">6. Kondisi</span></a></div>
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<a href="#L"><span style="font-family: times;">7. Download File</span></a></div></div><div
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style="text-align: center;"><br /></div><div style="text-align: center;"><b>Modul 1 Percobaan
```

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5&nbsp;</b></div><div style="text-align: center;"><b>Dipswitch dan 7-Segment</b></div><p
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style="text-align: justify;"><b style="text-align: left;"><span style="font-family: times; font-size:
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small;">1. Prosedur&nbsp;<a href="#home">[Kembali]</a></span></b></p><div style="text-align:
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justify;"><b style="text-align: left;"><ul style="background-color: white; font-family: times; font-size:
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15.4px; font-weight: 400; line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em;"><li
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style="margin: 0px 0px 0.25em; padding: 0px;"><span style="border: 0px; box-sizing: border-box;
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margin: 0px; padding: 0px;">Rangkai semua komponen&nbsp;</span></li><li style="margin: 0px 0px
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0.25em; padding: 0px;">Buat program di aplikasi arduino IDE</li><li style="margin: 0px 0px 0.25em;
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padding: 0px;">Setelah selesai masukkan program ke arduino&nbsp;</li><li style="margin: 0px 0px
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0.25em; padding: 0px;">Jalankan program pada simulasi dan cobakan dengan modul</li><li
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style="margin: 0px 0px 0.25em; padding: 0px;">Lihat hasil pada 7-Segment</li></ul></b></div><div
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style="text-align: justify;"><b style="text-align: left;"><br /></b></div><div><span style="font-family:
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times; text-align: left;"><div style="font-weight: bold; text-align: justify;"><b style="text-align:
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left;"><span><span><a name="H">2. Hardware dan Diagram Blok&nbsp;</a></span><a
```

[#home](#) > [\[Kembali\]](#) < / > < / span > < / b > < / div > < div style="text-align: justify;" > < ul > < li > Hardware < / li > < / ul > < div class="separator" style="clear: both; text-align: center;" > < a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEite-ZYUao3fhGo7vNd1kyXtKHi94HWgcFGOrMmAFYP0h9sa9Ve4qAytF4SsGGW18Vc5sBFuTftfaRA7sWBdm30TKo1J0xC3f3hBleCYNkUqxqr9jAydTOMRdgxe2GD4a7NXmLml6n6NSMedrp-WwTeT2E_2j_ifEHJ1DjcpNlIEgiloakpM-_6-Bv2w7Y/s690/Screenshot%202024-03-01%20080242.png" style="margin-left: 1em; margin-right: 1em;" > < img border="0" data-original-height="543" data-original-width="690" height="252" src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEite-ZYUao3fhGo7vNd1kyXtKHi94HWgcFGOrMmAFYP0h9sa9Ve4qAytF4SsGGW18Vc5sBFuTftfaRA7sWBdm30TKo1J0xC3f3hBleCYNkUqxqr9jAydTOMRdgxe2GD4a7NXmLml6n6NSMedrp-WwTeT2E_2j_ifEHJ1DjcpNlIEgiloakpM-_6-Bv2w7Y/s320/Screenshot%202024-03-01%20080242.png" width="320" / > < / a > < / div > < div > < ul > < li > Diagram Blok < / li > < / ul > < div class="separator" style="clear: both; text-align: center;" > < a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj0Mwq0uB7dwuJx682u_8-rsYxKRRPOUS60j7gwzwrqWWIzdh_3k39rvL5kjwfr48ULts8QZyTetSHzSO4tSgWDj2ky6h0kSN-ZDq0V7XJLEt4Mdm9DQo-BKu8NEoOLRTbI0GyR3Pf-T-liyta5_y2kRpa3vG5N-el_lcjTzDUxcTLGRIGhw3-uHFIT5dJ/s757/WhatsApp%20Image%202024-02-28%20at%2023.08.53_73ff842c.jpg" style="margin-left: 1em; margin-right: 1em;" > < img border="0" data-original-height="301" data-original-width="757" height="157" src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj0Mwq0uB7dwuJx682u_8-rsYxKRRPOUS60j7gwzwrqWWIzdh_3k39rvL5kjwfr48ULts8QZyTetSHzSO4tSgWDj2ky6h0kSN-ZDq0V7XJLEt4Mdm9DQo-BKu8NEoOLRTbI0GyR3Pf-T-liyta5_y2kRpa3vG5N-el_lcjTzDUxcTLGRIGhw3-uHFIT5dJ/w396-h157/WhatsApp%20Image%202024-02-28%20at%2023.08.53_73ff842c.jpg" width="396" / > < / a > < / div > < div > < br / > < / div > < / div > < / div > < div class="separator" style="clear: both; text-align: center;" > < br / > < / div > < div > < b > < span > < span > < a name="R" > 3. Rangkaian Simulasi dan Prinsip Kerja < / a > < / span > < a href="#home" > [Kembali] < / a > < / span > < / b > < / div > < div > < ul style="text-align: left;" > < li > Rangkaian < / li > < / ul > < div class="separator" style="clear: both; text-align: center;" > < a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh4IDFuR1t5exCCTJf6_mJKki9oRw5BjBi6c4ywZZOyGk8ao5qHo8FRzctEuEmXdAgypDuQFndub3jrEtVtFBMhwdI2kjYf2AP7GMXTU-55BshcUGu6sfVZ5sMyqY9i9_QrgNZJhevEdACeK0xwjYQ9YGFZPd2wtR1_mUy7-YLpXWOr4dl6ZyyGe7Dnqrtn/s1174/proteus.png" style="margin-left: 1em; margin-right: 1em;" > < img border="0" data-original-height="610" data-original-width="1174" height="192" src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh4IDFuR1t5exCCTJf6_mJKki9oRw5BjBi6c4ywZZOyGk8ao5qHo8FRzctEuEmXdAgypDuQFndub3jrEtVtFBMhwdI2kjYf2AP7GMXTU-55BshcUGu6sfVZ5sMyqY9i9_QrgNZJhevEdACeK0xwjYQ9YGFZPd2wtR1_mUy7-YLpXWOr4dl6ZyyGe7Dnqrtn/w370-h192/proteus.png" width="370" / > < / a > < / div > < ul style="text-align: left;" > < li > Prinsip Kerja < / li > < / ul > < div > Pada percobaan 5 kondisi 1 yang dimana menggunakan dipswitch sebagai input dan seven segment 2 digit sebagai output, pada dipswitch menggunakan rangkaian pull down, yang mana rangkaian pull down akan aktif apabila saklarnya terhubung. Pada saat dipswitch terhubung maka dipswtich akan berlogika high kemudian data akan di transfer ke mikrokontroler arduino uno, kemudian dari mikrokontroler arduino uno menuju seven segment 2 digit, maka seven segment akan menampilkan angka sesuai dengan kodingan yang dibuat. < / div > < div > < br / > < / div > < / div > < div > < b > < br / > < / b > < / 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 style="font-size: small;" > < a name="FL" > 4. Flowchart dan Listing Program < / a > < / 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;" > < a

[https://www.blogger.com/img/b/R29vZ2xl/AVvXsEgEjnC2vEpTIJ0Y_o77ufeK0gcBMnxSJrwHiVzG4nUVoioEfzcCAhMvz7mKWrx9bnWT45gCS1PULgm_X30D_02FHb9g1lw1YhhijjSub9lPkfYK7XUbjquuLN3a3iFADIfiaupKOOX47vp8Cepn3HqsM0O0s1VDBeKoWkS1oF7-l31RbjFDgYCWhSCUP43c/w379-h230/Screenshot%202024-02-28%20231937.png](https://www.blogger.com/img/b/R29vZ2xl/AVvXsEgEjnC2vEpTIJ0Y_o77ufeK0gcBMnxSJrwHiVzG4nUVoioEfzcCAhMvz7mKWrx9bnWT45gCS1PULgm_X30D_02FHb9g1lw1YhhijjSub9lPkfYK7XUbjquuLN3a3iFADIfiaupKOOX47vp8Cepn3HqsM0O0s1VDBeKoWkS1oF7-l31RbjFDgYCWhSCUP43c/s1004/Screenshot%202024-02-28%20231937.png)

Listing Program

```
#define <span style="color: #d35400;">a</span> <span style="color: #728e00;">6</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">b</span> <span style="color: #005c5f;">7</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">c</span> <span style="color: #005c5f;">8</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">d</span> <span style="color: #005c5f;">9</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">e</span> <span style="color: #005c5f;">10</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">f</span> <span style="color: #005c5f;">11</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">g</span> <span style="color: #005c5f;">12</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">dp</span> <span style="color: #005c5f;">13</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">D1</span> <span style="color: #005c5f;">4</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">D2</span> <span style="color: #005c5f;">5</span></div><div><span style="color: #728e00;">#define</span> <span style="color: #d35400;">Dsw</span> A0</div><div><span style="color: #95a5a6;">// 1 = 36</span></div><div><span style="color: #95a5a6;">// 2 = 33</span></div><div><span style="color: #95a5a6;">>// 3 = 26</span></div><div><span style="color: #95a5a6;">>// 4 = 21</span></div><br /><br /><div>byte <span style="color: #d35400;">digitPatterns</span>[<span style="color: #005c5f;">10</span>][<span style="color: #005c5f;">7</span>] = <span style="color: #434f54;">{</span></div><div>&nbsp;<span style="color: #434f54;">{</span><span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">1</span><span style="color: #434f54;">}</span>, <span style="color: #95a5a6;"> // 0</span></div><div>&nbsp;<span style="color: #434f54;">{</span><span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">1</span><span style="color: #434f54;">}</span>, <span style="color: #95a5a6;"> // 1</span></div><div>&nbsp;<span style="color: #434f54;">{</span><span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">0</span>, <span style="color: #005c5f;">1</span>, <span style="color: #005c5f;">0</span><span style="color: #434f54;">}</span>, <span style="color: #95a5a6;"> // 2</span></div><div>&nbsp;<span style="color: #434f54;">{</span></div>
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[illegible]

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style="color: #434f54;">(</span>D1,OUTPUT<span style="color:
#434f54;">)</span>;</div><div>&nbsp; <span style="color: #d35400;">pinMode</span><span
style="color: #434f54;">(</span>D2,OUTPUT<span style="color:
#434f54;">)</span>;</div><div>&nbsp; <span style="color: #d35400;">pinMode</span><span
style="color: #434f54;">(</span>Dsw,INPUT_PULLUP<span style="color:
#434f54;">)</span>;</div><div>&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><br /><div><span
style="color: #434f54;">}</span></div><div><span style="color: #00979d;">void</span> <span
style="color: #d35400;">number</span> <span style="color: #434f54;">(</span><span style="color:
#00979d;">int</span> <span style="color: #434f54;">display)</span> <span style="color:
#434f54;">{</span></div><div>&nbsp; <span style="color: #728e00;">if</span> <span style="color:
#434f54;">(</span>display &nbsp;> <span style="color: #005c5f;">0</span> & &
display &lt; <span style="color: #005c5f;">9</span><span style="color: #434f54;">)</span> <span
style="color: #434f54;">{</span></div><div>&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> <span style="color:
#005c5f;">7</span> <span style="color: #434f54;">)</span> <span style="color:
#434f54;">{</span></div><div>&nbsp; &nbsp; &nbsp; <span style="color:
#d35400;">digitalWrite</span><span style="color: #434f54;">(</span><span style="color:
#d35400;">segments</span>[i], <span style="color: #d35400;">digitPatterns</span>[display
][i]<span style="color: #434f54;">)</span>;</div><div>&nbsp; &nbsp; <span style="color:
#434f54;">}</span></div><div>&nbsp; <span style="color: #434f54;">}</span></div><div><span
style="color: #434f54;">}</span></div><br /><div><span style="color: #00979d;">void</span>
<span style="color: #d35400;">loop</span><span style="color: #434f54;">()</span> <span
style="color: #434f54;">{</span></div><br /><div>&nbsp; <span style="color: #00979d;">int</span>
sw = <span style="color: #d35400;">analogRead</span><span style="color:
#434f54;">(</span>Dsw<span style="color: #434f54;">)</span>;</div><div>&nbsp; <span
style="color: #d35400;">Serial</span>.<span style="color: #d35400;">print</span><span
style="color: #434f54;">(</span><span style="color: #005c5f;">"ADC Value = "</span><span
style="color: #434f54;">)</span>;</div><div>&nbsp; <span style="color:
#d35400;">Serial</span>.<span style="color: #d35400;">println</span><span style="color:
#434f54;">(</span>sw<span style="color: #434f54;">)</span>;</div><div>&nbsp; <span
style="color: #d35400;">delay</span><span style="color: #434f54;">(</span><span style="color:
#005c5f;">100</span><span style="color: #434f54;">)</span>;</div><br /><br /><div>&nbsp; <span
style="color: #728e00;">if</span> <span style="color: #434f54;">(</span>sw == <span style="color:
#005c5f;">36</span><span style="color: #434f54;">)</span>{</div><div><span style="color:
#d35400;">digitalWrite</span><span style="color: #434f54;">(</span>D1,LOW<span style="color:
#434f54;">)</span>;</div><div><span style="color: #d35400;">digitalWrite</span><span
style="color: #434f54;">(</span>D2,HIGH<span style="color: #434f54;">)</span>;</div><div><span
style="color: #d35400;">number</span><span style="color: #434f54;">(</span><span style="color:
#005c5f;">1</span><span style="color: #434f54;">)</span>;</div><div><span style="color:
#d35400;">delay</span><span style="color: #434f54;">(</span><span style="color:
#005c5f;">50</span><span style="color: #434f54;">)</span>;</div><div><span style="color:
#d35400;">digitalWrite</span><span style="color: #434f54;">(</span>D1,HIGH<span style="color:
#434f54;">)</span>;</div><div><span style="color: #d35400;">digitalWrite</span><span
style="color: #434f54;">(</span>D2,LOW<span style="color: #434f54;">)</span>;</div><div><span
style="color: #d35400;">number</span><span style="color: #434f54;">(</span><span style="color:

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[illegible]

#d35400;">number6</div><div>delay1000</div><div>number7</div><div>delay1000</div><div>number8</div><div>delay1000</div><div>number9</div><div>delay1000</div><div> </div><div></div></div></div><div><b style="text-align: left;">
</div><div><div>5. Video Demo [Kembali]</div><ul style="text-align: left;">Merangkai<div class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen="" class="BLOG_video_class" height="266" src="https://www.youtube.com/embed/jQwAhBPJvX8" width="320" youtube-src-id="jQwAhBPJvX8"></iframe></div>
<div class="separator" style="clear: both; text-align: left;"><ul style="text-align: left;">Video Demo<div class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen="" class="BLOG_video_class" height="266" src="https://www.youtube.com/embed/rSNEzIFBW2w" width="320" youtube-src-id="rSNEzIFBW2w"></iframe></div></div></div><div><p style="text-align: justify;"><b style="text-align: left;">6. Kondisi [Kembali]</p><div style="text-align: justify;">Masing-masing switch LED menghasilkan tampilan yang berbeda-beda sesuai logika yang diatur pada listing program.</div><div style="text-align: justify;">
</div><div style="text-align: -webkit-center;"><p></p><div><b style="text-align: left;"><div style="font-weight: 400; text-align: -webkit-center;"><p style="text-align: justify;"><b style="text-align: left;">7. Download File [Kembali]</p><p style="text-align: justify;">HTML klik disini</p><p style="text-align: justify;">- Gambar Hardware klik disini</p><p style="text-align: justify;">- Gambar Simulasi <a href="https://drive.google.com/file/d/1FtDWIamZuwDKfclBndJcWCasOP4PK2TA/view?usp=drive_lin

k">klik disini</p><p style="text-align: justify;">- Video
Demo klik
disini</p></div></div></div></spa
n></div></div><div style="text-align: left;"><span
style="text-align: justify;">- Listring Program <span style="text-align:
justify;"> <a
href="https://drive.google.com/file/d/17fwJ--uNkRTJIZVGndrpelfPyrGhrNM5/view?usp=drive_link"
style="text-align: justify;">klik disini</div><p style="text-align: left;"><span
style="font-family: times;">
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times;">
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style="font-family: times;">
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