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<a name="home">
</a>
<br />
<div style="text-align: center;">
<a href="https://mfarhan202057.blogspot.com/p/modul-3.html">[KEMBALI KE MENU
SEBELUMNYA]</a></div>
<br />
<center>
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overflow: auto; padding: 10px; text-align: center; width: 330px;">
<b>DAFTAR ISI</b>
<br />
<div style="text-align: left;">
<a href="#jurnal">1. Jurnal</a></div>
<div style="text-align: left;">
<a href="#alat">2. Alat dan Bahan</a></div>
<div style="text-align: left;">
<a href="#rangkaian">3. Rangkaian Simulasi</a></div>
<div style="text-align: left;">
<a href="#prinsip">4. Prinsip Kerja Rangkaian</a><br />
<div style="text-align: left;">
<a href="#video">5. Video Rangkaian</a></div>
<div style="text-align: left;">
<a href="#analisa">6. Analisa</a><br />
<div style="text-align: left;">
<a href="#link">7. Link Download</a></div>
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</div>
</div></center>
<span><span><div style="font-family: times, &quot;times new roman&quot;; serif; font-size:
medium; font-weight: bold;"><span style="font-family: &quot;times&quot;; , &quot;times new
roman&quot;; , serif;"><span style="font-family: &quot;times&quot;; , &quot;times new
roman&quot;; , serif; font-size: small;"><b><br />
<span style="font-family: &quot;times&quot;; , &quot;times new roman&quot;; , serif;"><span
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small;"><b>1. Jurnal </b>
<a name="jurnal"></a>
<a href="#home">[Kembali]</a></span></span></b></span></span></div><div
style="font-family: times, &quot;times new roman&quot;; serif; font-size: medium; font-weight:
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serif;"><span style="font-family: &quot;times&quot;; , &quot;times new roman&quot;; , serif;
font-size: small;"><b><br /></b></span></span></div><div style="font-family: times,
&quot;times new roman&quot;; serif; font-size: medium; font-weight: bold;"><span
style="font-family: &quot;times&quot;; , &quot;times new roman&quot;; , serif;"><span

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style="font-family: "times" , "times new roman" , serif; font-size: small;"><div class="separator" style="clear: both; text-align: center;">
</div>

</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;">
2. Alat dan Bahan[Kembali]</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;">
</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;"><div class="separator" style="background-color: white; clear: both; color: #595959; font-size: 15.4px; text-align: center;"><div style="border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: start;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> <b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">A. Alat</div><div style="border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: start;"><br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: start;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> <b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> <b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">a). Instrument</div><div style="border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: start;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;">Multimeter</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> b). Probes</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"></div>Logic Probe</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"> c). Generators<br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;">Power Supply</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">B. Bahan</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> <br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"> Resistor</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"> a). Komponen Input</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px; text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;"><a

href="https://1.bp.blogspot.com/-bu8ecz3o4K0/YYXxQgsq80I/AAAAAAAC5k/-NL22bGvF6cPoy
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b5a08.jpg" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px 1em;
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helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding:
0px;">Keypad</div><div class="separator" style="border: 0px; box-sizing: border-box; clear:
both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size:
15px; font-weight: 400; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;"
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#444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px;
font-weight: 400; margin: 0px; padding: 0px; text-align: left;"> b). Komponen
Output</div><div style="border: 0px; box-sizing: border-box; color: #444444; font-family:
"open sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin:
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arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding: 0px;
text-align: start;"><br style="box-sizing: border-box;" /></div><div class="separator"
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sans"; arial, helvetica, sans-serif; font-size: 15px; font-weight: 400; margin: 0px; padding:
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href="https://1.bp.blogspot.com/-He1BjIJxdTM/YYT36HPj9rI/AAAAAAAC40/v-BbSasslycxYIK
eYtjAQO_L5L3VjvGUwCLcBGAsYHQ/s671/LED5MM.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;"></div><div style="border: 0px; box-sizing: border-box; color: #444444; font-family:
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0px; padding: 0px; text-align: start;"></div><div style="border: 0px; box-sizing: border-box;
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font-weight: 400; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box;
margin: 0px; padding: 0px; text-align: left;">c). Komponen Lainnya<br style="box-sizing:
border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;
text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"><span style="border: 0px; box-sizing: border-box; margin: 0px; padding:
0px;"> <span style="border: 0px; box-sizing: border-box; margin:

Opx; padding: 0px;"> </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"> -Mikrokontroler<br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">Modul Arduino</div></div></div><div class="separator" style="background-color: white; clear: both; color: #595959; font-size: 15.4px; text-align: center;"><div>
</div></div>3. Rangkaian Simulasi[Kembali]</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;">
</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;">
</div><div style="font-family: times, "times new roman", serif; font-size: medium; font-weight: bold;"><div class="separator" style="background-color: white; clear: both; color: #505050; font-family: Georgia, Utopia, "Palatino Linotype", Palatino, serif; font-size: 15.4px; font-weight: 400; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjCLbwn2EbWWooSPiFiyX

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</div><b style="box-sizing: border-box; color: #757575; font-family: times, "times new roman"; serif; font-size: medium; text-align: start;"><b style="box-sizing: border-box; color: #757575; font-family: times, "times new roman"; serif; font-size: medium; text-align: start;"><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"></div><div>
</div></div><div style="text-align: center;"><div class="separator" style="clear: both;">
</div><div class="separator" style="clear: both;">gambar rangkaian pada percobaan 1 menggunakan De Lorenzo</div>
<div class="separator" style="clear: both;">
</div><div class="separator" style="clear: both;">
</div><div class="separator" style="clear: both;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both;">
<div class="separator" style="clear: both;"></div><div class="separator" style="clear: both;"><br style="color: #333333; font-family: times, "times new roman"; serif; font-size: 14.85px;" /></div><div class="separator" style="clear: both;">gambar rangkaian pada percobaan 1 menggunakan proteus</div><div class="separator" style="clear: both;">
</div>
4. Prinsip Kerja Rangkaian

[Kembali]</div><div style="font-family: times, "times new roman"; serif; font-size: medium; font-weight: bold;">
</div><div style="font-family: times, "times new roman"; serif; font-size: medium; font-weight: bold;"><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400;"> Prinsip kerja dari rangkaian ini adalah ketika sebuah kita mendeklarasikan sebuah pin pada arduino yakni pada pin 2-9 sebagai output dari power supply, kemudian diteruskan menuju sebuah resistor untuk mengurangi tegangan ketika diteruskan ke LED yang berguna untuk mengurangi tegangan pada LED agar tidak mudah rusak. Kemudian LED di teruskan ke ground.</div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400;">
</div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400;"> Pada percobaan ini, apabila pada kondisi pertama LED akan hidup 2 dari tengah, kemudian lampu akan bertambah hidup nya ke kiri dan bergerak bertambah terus hingga semua lampu hidup kemudian semua lampu akan mati dan akan memulai perulangan hidup lampu dari 2 tengah. </div></div><div><div style="text-align: justify;">
</div>
5. Video Rangkaian

[Kembali]</div><div>

, serif; font-size: small;">
</div><div>
</div><div><div class="separator" style="clear: both; font-weight: bold; text-align: center;"><div class="separator" style="clear: both;"><b style="background-color: white; box-sizing: border-box; color: #757575; text-align: start;"><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><iframe allowfullscreen="allowfullscreen" class="b-hbp-video b-uploaded" frameborder="0" height="266" id="BLOGGER-video-61e5a0e9c54ec143-4019" mozallowfullscreen="mozallowfullscreen" src="https://www.blogger.com/video.g?token=AD6v5dzkcGTkYBTifugNYGHsPaskKQ3d0fhvHAP42op8iJ6kZR4NLtyMkr3fLhGOF6JgaOKWJ3NinZxTcuRBM0p1fE2z0O1BZe9hcces8wo6SGzYT6gLbppsP_I1ddjzVJwyJTRzK_vbc" style="border-style: initial; border-width: 0px; box-sizing: border-box; max-width: 100%;" webkitallowfullscreen="webkitallowfullscreen" width="320"></iframe></div><br style="box-sizing: border-box;" /></div><div class="separator" style="clear: both;">
</div></div><div style="text-align: center;">video penjelasan rangkaian percobaan 1</div><div class="separator" style="clear: both; font-weight: bold; text-align: center;"><br style="background-color: white; color: #505050; font-family: arial; font-size: 15.4px; font-weight: 400;" /></div></div><div>
</div><div>6. Analisa</div><div></div><div>[Kembali]</div><div>
</div><div><div><div><div>1.Analisa Pengaruh Forward bias terhadap inputan HIGH dan LOW pada LED.</div><div>jawab:</div><div>Forwar bias adalah keadaan arus mengalir dari anoda ke katoda.</div><div>pengaruhnya yaitu, LED akan menyala ketika diberi logika High</div><div>
</div><div>2.Analisa mengapa LED tidak menyala saat katoda dipasang pada pin 5V.</div><div>jawab:</div><div>LED tidak menyala karena tidak adanya beda potensial, sehingga tidak ada arus yang mengalir pada LED.</div><div style="font-size: large; font-weight: bold;">
</div></div></div></div><div><span style="font-family: "times" , "times new roman" , serif; font-size: medium;

font-weight: bold;">
<div style="text-align: justify;">7. Link Download[Kembali]</div><div style="text-align: justify;"><div>
</div><div>
</div><div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400; text-align: start;">1. Rangkaian disini </div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400; text-align: start;">2. Video disini</div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400; text-align: start;">3. HTML disini</div><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 14.85px; font-weight: 400; text-align: start;"><div>4. Program Arduino: disini</div><div>5. Data sheet Arduino: disini</div><div>6. Data sheet LED: disini</div><div>7. Data sheet Resistor: disini</div></div></div></div><div style="text-align:

justify;"><span style="font-family: "times" , "times new roman" ,
serif;">
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