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<div style="text-align: center;"><b>MODUL III</b></div><b><div style="text-align: center;"><b>Laporan Akhir 2</b>&nbsp;</div><a name="home"></a></b>
<div style="text-align: center;">
<a href="#">[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="#hard">1. Alat dan Bahan</a></div>
<div style="text-align: left;">
<a href="#rangkaiannya">2. Rangkaian Simulasi</a></div>
<div style="text-align: left;">
<a href="#flowchart">3. Prinsip Kerja Rangkaian</a></div>
<div style="text-align: left;">
<a href="#video">4. Video Rangkaian</a></div>
<div style="text-align: left;">
<a href="#prinsip">5. Analisa</a><br />
<div style="text-align: left;">
<a href="#link">6. Link Download</a></div>
</div>
</div>
</center>
<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>1. Alat dan Bahan</b>
<a name="alat"></a>
<a href="#home">[Kembali]</a></span></span><div><span style="font-family: times, times new roman, serif;"><br /></span></div><div><div style="color: #222222;"><div class="separator" style="clear: both; text-align: center;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: start;"><h2 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; 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;">a) Instrument</h2><h2 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; 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;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">1. Power Supply<br style="border: 0px; box-sizing: border-box; font-size: 13.2px; margin: 0px; padding: 0px; text-align: center;"></div></div><div style="border: 0px; box-sizing: border-box; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px; text-align: start;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: center;">Gambar 1. Power Supply</div></div><div style="text-align: start;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; 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; margin: 0px; padding: 0px; text-align: left;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="border: 0px; box-sizing: border-box; font-size: 13.2px; margin: 0px; padding: 0px;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><h2 style="border: 0px; box-sizing: border-box; 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-align: left; text-indent: -1px;">1. Potensiometer<br style="border: 0px; box-sizing: border-box; font-size: 13.2px; margin: 0px; padding: 0px;"></h2><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;

font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px;"></div><div style="border: 0px; box-sizing: border-box; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px;">Gambar 2. Potensiometer</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;"><div class="separator" style="clear: both; text-align: left;">2. resistor</div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: left;"></div></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">a) Komponen Input</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"> </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;">1. push button<br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px; text-align: justify;"> </div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgizNGj6Gr8cJJZLcZNPzuoK9LO5PecsmcADPzwPPQnIM6pDuoGTGzfQyCFkIAJsFygVKskcdAxpLkEggeKkJQsyTnTm8uLrdyqMKCJVZdDdAH9cHd0jxQ9gxb2N8wccqoSQ33L0BFAqxfg8mDhQd1rO29kCcxh7Za9UTbXMEskPcIGLPws00bpxVjk2/700/push-button-tactile.jpg" style="color: #cc6611; margin-left: 1em; margin-right: 1em;

text-decoration-line: none;"></div>
<div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">
</div></div><div style="border: 0px; box-sizing: border-box; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">b) Komponen Output</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"> </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"><div class="separator" style="clear: both; text-align: left;">buzzer</div><div class="separator" style="clear: both; font-family: times; text-align: center;"></div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: center;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: times, "times new roman", serif; margin: 0px; padding: 0px;"></div><div style="border: 0px; box-sizing: border-box; font-family: times, "times new roman", serif; margin: 0px; padding: 0px; text-align: start;"></div><div style="border: 0px; box-sizing: border-box; font-family: times, "times new roman", serif; margin: 0px; padding: 0px;">LED </div></div></div><div style="border: 0px; box-sizing: border-box; margin: 0px;

padding: 0px; text-align: justify;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"> </div></div></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">c) Komponen Lainnya </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"> </div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;">1. Mikrokontroler<br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; margin: 0px; padding: 0px; text-align: center;">Gamabar 7. Arduino Uno</div></div></div></div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px;">
</div><div style="font-family: times; font-size: 13.2px;">
</div>- Bread Board</div><div style="color: #222222;">Merupakan sejenis papan roti yang biasanya digunakan untuk membuat prototype rangkaian elektronik. Beberapa orang kadang menyebutnya<i>project board</i> </div><div style="color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;"><i>
</i></div><div style="color: #222222;"><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: center;"></div></div>

src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgVF2Z95ui5dhuB8306oq4_wC-M9yoWxQUazB2aDw4tAcTPE4-DBiYX7fcLD7t2rr1b88XnYKlqxy3W7sQiPjGbsacIIz0lojZCZJg1QIAg9U6mnSfYO_obOpUkbt8hHjKQN8XrauQhQziYpp_cwbyvZbjRNKBd9rAsijZlvX_DgRgl3aQ45sxp_Xw7Jw/s320/breadboard-half.jpg" style="background: rgb(255, 255, 255); border: 1px solid rgb(238, 238, 238); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; padding: 5px; position: relative;" width="320" /></div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="clear: both; font-family: inherit;">
</div><div class="separator" style="clear: both;">- Kabel Jumper</div><div class="separator" style="clear: both;">Kabel jumper adalah suatu istilah kabel yang ber-diameter kecil yang di dalam dunia elektronika digunakan untuk menghubungkan dua titik atau lebih dan dapat juga untuk menghubungkan 2 komponen elektronika. Kabel jumper jenis ini digunakan untuk koneksi male to male pada kedua ujung kabelnya.</div><div class="separator" style="clear: both; font-family: times; font-size: 13.2px; text-align: center;"></div></div><div>

2. Rangkaian Simulasi

[Kembali]</div><div>
</div><div><div class="separator" style="clear: both; text-align: center;"></div>
<span style="font-family:

"times" , "times new roman" , serif;">
</div><div>

3. Prinsip Kerja Rangkaian

[Kembali]</div><div>

4. Video Rangkaian

[Kembali]</div><div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="c495214b715e5037" height="266" id="BLOG_video-c495214b715e5037" width="320"></object></div>

</div><div>

5. Analisa

[Kembali]</div><div>Percobaan 3</div><div>1. Bagaimana output yang dihasilkan jika kita memutar potensio searah jarum jam maupun berlawanan arah jarum jam? Bagaimana pembacaan pada serial monitor jika potensiometranya diputar</div><div>Jawab:</div><div>Ketika memutar potensiometer searah jarum jam, led akan lama hidupnya dengan delay yang semakin lama, sedangkan ketika memutar potensiometer berlawanan arah jarum jam, led akan hidup sebentar dengan delay yang semakin cepat</div><div>
</div><div>2. Apabila salah satu pin 12C dicabut, baik pin SDA, maupun SCL dicabut, bagaimana output yang dihasilkan? apakah data tetap terkirim? Mengapa demikian</div><div>Jawab:</div><div>Jika pin SDA ataupun SCL dicabut tidak akan terjadi transfer data namun ketika pin SCL atau SDA dicabut saat proses transfer data, data terakhir yang telah terkirim dan master ke slave akan tetap ditransfer, maka outputnya tidak akan aktif.</div><div>

6. Link Download

[\[Kembali\]](#)

Video Rangkaian
https://drive.google.com/file/d/1UEdD35wohHCt_QVzWR70CcYC9H_W7Jki/view?usp=share_link
Download file

File Rangkaian
<https://drive.google.com/file/d/1zy9-cgqCgvZHYgPKaTKscUyuP8vJBpLu/view?usp=sharinghttps://drive.google.com/file/d/1zy9-cgqCgvZHYgPKaTKscUyuP8vJBpLu/view?usp=sharing>
Download file

Datasheet Potensiometer
<https://drive.google.com/uc?export=download&id=1whxRCWa8woxN30CcFGKmzHxBzS X9ljt>
Download File

Datasheet Arduino UNO
<https://drive.google.com/uc?export=download&id=1JcjNhdKX1GicjQNxC44tn1UvIzt3krh K>
Download File

Datasheet Resistor
https://drive.google.com/uc?export=download&id=1dUH2MtN9dmBCz6862h63DCRKnS_WX4qk
download file

Datasheet Arduino UNO
<https://drive.google.com/uc?export=download&id=1wEvy-YI2GSQSKOGJw9C5iFXmMIWD NMts>
download file

Datasheet LCD
<https://drive.google.com/uc?export=download&id=13PPy6iUNdUb4YjTeAcI8kuLLteWmgf bN>
download file

margin: 0px; padding: 0px;">Datasheet LED <a
href="https://drive.google.com/uc?export=download&id=16ssTCQ5kJUWTD_8UCQO55sg62E8
kN-Z" style="border: 0px; box-sizing: border-box; color: #cc6611; margin: 0px; padding: 0px;
text-decoration-line: none; transition: all 0.3s ease 0s;">download
file</div></div></div><div><span style="font-family:
"times" , "times new roman" , serif;"><span style="font-family:
"times" , "times new roman" , serif; font-size: small;"><br
</div></div>