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<div style="text-align: center;"><b>MODUL III</b></div><b><div style="text-align:
center;"><b>Laporan Akhir 1</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>

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

<a href="#hard">1. Alat dan Bahan</a></div>

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

<a href="#rangkaian">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>

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<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: inherit;"><div
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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;

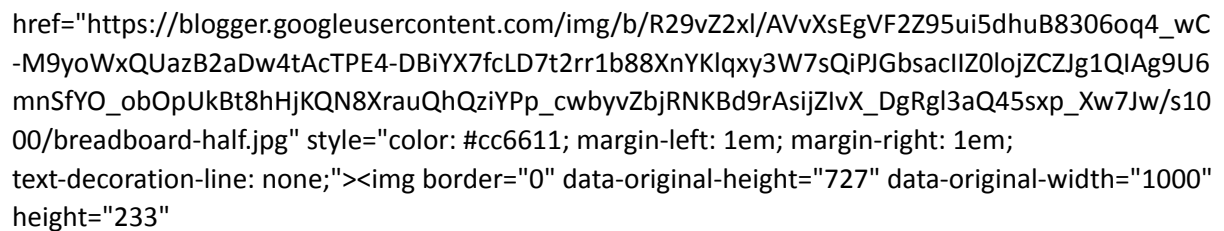
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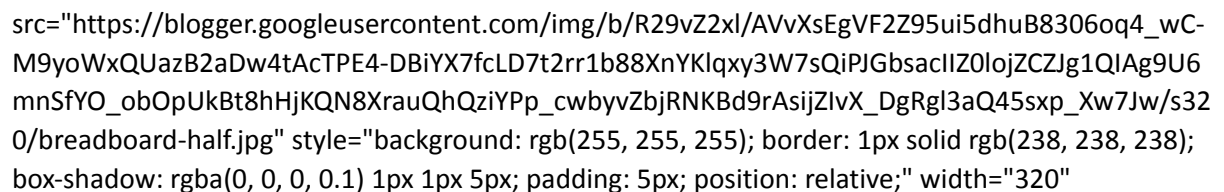
padding: 4px 0px 0px; position: relative; text-indent: -1px;">a) Instrument</h2><h2 style="border: 0px; box-sizing: border-box; letter-spacing: 0px; line-height: 29px; margin: 0px 0px 7px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; padding-top: 4px; position: relative; text-indent: -1px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">1. Power Supply<br style="border: 0px; box-sizing: border-box;" /></h2><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div style="border: 0px; box-sizing: border-box; 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;" /></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; position: relative; text-align: left; text-indent: -1px;">1. Potensiometer<br style="border: 0px; box-sizing: border-box;" /></h2><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><a href="https://1.bp.blogspot.com/-RUg1dXdRJ7g/YYh-GrAPLiI/AAAAAAAAAC8w/NSeh63JrRbsaKhVXwoznlG8PAD8S994wCLcBGAsYHQ/s238/potensiometer.png" style="border: 0px; box-sizing: border-box; color: #cc6611; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all

0.3s ease 0s;"></div><div style="border: 0px; box-sizing: border-box; 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; 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="border: 0px; box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: justify;"> <div class="separator" style="clear: both; text-align: center;"></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; 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;"></div>

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; text-align: center;"></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; margin: 0px; padding: 0px; text-align: center;">Gamabar 7. Arduino Uno</div></div></div></div><div class="separator" style="clear: both;">
</div><div>
</div><div>
</div>- Bread Board</div><div style="color: #222222;">Merupakan sejenis papan roti yang biasanya digunakan untuk membuat prototype

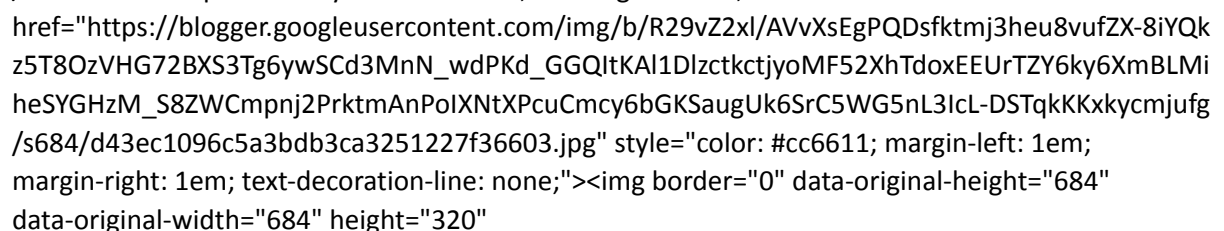
rangkaian elektronik. Beberapa orang kadang menyebutnya *project board* atau bahkan *protoboard* (prototype board).

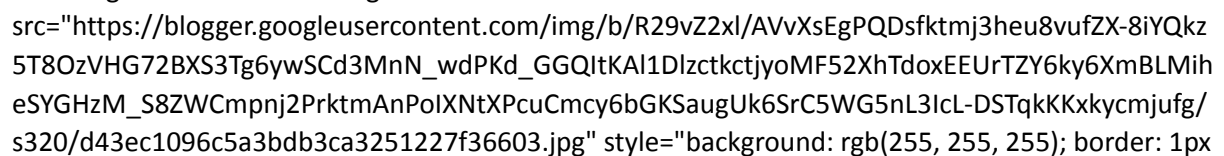
A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

Kabel Jumper

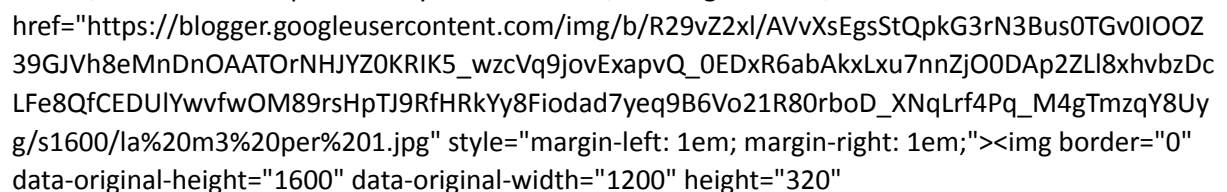
suatu istilah kabel yang ber-diameter kecil yang di dalam dunia elektronika digunakan untuk menghubungkan dua titik atau lebih dan dapat juga untuk menghubungkan 2 komponen elektronika. Kabel jumper jenis ini digunakan untuk koneksi male to male pada kedua ujung kabelnya.

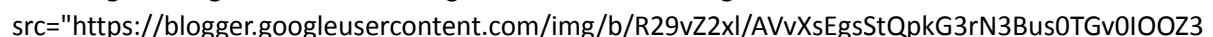
A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

2. Rangkaian Simulasi

[\[Kembali\]](#)

A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

A breadboard with electronic components. The breadboard is a rectangular circuit board with a grid of holes. It is used to prototype electronic circuits. The components are connected to the breadboard using jumper wires.

9GJVh8eMnDnOAATOrNHJYZ0KRiK5_wzcVq9jovExapvQ_0EDxR6abAkxLxu7nnZjO0DAp2ZLI8xhvbzDcLFe8QfCEDUIYwvfwOM89rsHpTJ9RfHRkYy8Fiodad7yeq9B6Vo21R80rboD_XNqLrf4Pq_M4gTmzqY8Uyg/s320/la%20m3%20per%201.jpg" width="240" /></div>

</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="91d92a540ef799e5" height="266" id="BLOG_video-91d92a540ef799e5" width="320"></object></div>

</div><div>

5. Analisa

[Kembali]</div><div>1. Berdasarkan percobaan yang telah dilakukan dengan memvariasikan nilai baudrate pada slave, master dan serial monitor</div><div>Variasi 1</div><div>Master (9600)</div><div>Slave (9600)</div><div>Serial monitor (9600)</div><div>
</div><div>Variasi 2</div><div>Master (115200)</div><div>Slave (115200)</div><div>Serial monitor (115200)</div><div>
</div><div>Variasi 3</div><div>Master (9600)</div><div>Slave (115200)</div><div>Serial monitor (9600)</div><div>
</div><div>Bagaimana output yang dihasilkan? Apakah led disetiap variasi itu hidup atau bagaimana? Jelaskan output yang dihasilkan dari setiap variasi beserta alasan dan penjelasannya dengan lengkap</div><div>Jawab:</div><div>Output yang dihasilkan pada variasi 1 dan 2 adalah led dapat hidup. Hal ini dapat terjadi karena kecepatan pada master dan slave sama, sehingga tidak akan terjadi gangguan ketika master mengirimkan data ke slave karena kecepatan terima slave sama dengan kecepatan kirim master. Dari hasil percobaan, jika memasukkan nilai baudratennya 115200 maka led nya akan lebih cepat daripada baudratennya 9600, karena semakin besar nilai baudratennya maka semakin cepat juga aliran datanya.</div><div>
</div><div>2. Pada percobaan apa yang terjadi jika Tx pada slave dan Rx pada master diputuskan? Apakah led tetap menyala? apakah data masih bisa dikirimkan dari slave ke master? Jelaskan beserta alasannya

dengan lengkap

Jawab:

Led tetap menyala, karena untuk pin Rx itu sebagai penerima dan pin Tx untuk memancarkan sinyal (buton tekan) walaupun Tx pada slave dan Rx pada master diputuskan. Hal ini terjadi karena pada percobaan ini data akan dikirimkan dari master ke slave yang mana data ditransfer melalui pin Tx master dan diterima pin Rx slave. Namun hal ini slave tidak dapat mentransfer data ke master karena saluran telah diputuskan

6. Link Download

[Kembali]

</div><div>
</div><div>Video Rangkaian

Download file</div><div>File Rangkaian</div><div>Download file</div><div>Datasheet Potensiometer</div><div>Download File</div><div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #222222; margin: 0px; padding: 0px;">Datasheet Resistor</div><div>download file</div><div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #222222; margin: 0px; padding: 0px;">Datasheet Arduino UNO</div><div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #222222; margin: 0px; padding: 0px;">Datasheet LCD</div><div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-weight: bold; margin: 0px; padding: 0px;"><div style="font-weight: 400;">Listing Program Arduino Slave

href="https://drive.google.com/file/d/1tNjBko__PM8dkATIXW68bPtqUUaSplAi/view?usp=sharing"
style="text-decoration-line: none;">Klik disini</div><div
style="font-weight: 400;">Listing Program Arduino Master <a
href="https://drive.google.com/file/d/1kbcPx3H6TUjRC8xtIC4ESbz0gkX3Lmt/view?usp=sharing"
style="text-decoration-line: none;">Klik
disini</div></div></div>