

<h2 style="text-align: center;">LAPORAN AKHIR 2</h2><h2 style="text-align: center;">PERCOBAAN 2</h2>

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

[KEMBALI KE MENU SEBELUMNYA]</div>

<center>

<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow: auto; padding: 10px; text-align: center; width: 330px;">

DAFTAR ISI

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

1. Jurnal</div>

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

2. Alat dan Bahan</div>

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

3. Rangkaian Simulasi</div>

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

4. Prinsip Kerja Rangkaian</div>

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

5. Video Rangkaian</div>

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

6. Analisa</div>

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

7. Link Download

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<div style="font-size: medium;">

, serif; font-size: small;"/>**
**</div>1. JURNAL

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

2. ALAT DAN BAHAN

[Kembali]</div><div id="alat" style="background-color: white; border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">2.1 Alat</div><div style="background-color: white; border: 0px; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">a.. Jumper</div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;">Gambar 1. Jumper</div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator"

style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #444444; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">b.Panel DL 2203D </div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">c.Panel DL 2203C </div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">d.Panel DL 2203S</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;">Gambar 2. Modul De Lorenzo</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" id="bahan" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">2.2 Bahan (proteus) [kembali]</div><div class="separator" id="bahan" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">a. BCD Decoder </div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><span
style="font-family: times; font-size: medium;"><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family: times; font-size:
medium;">
</div>b. Seven segment<span style="font-family: times; font-size:
large;"> </div><div class="separator" style="border: 0px; box-sizing: border-box; clear:
both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box;
clear: both; margin: 0px; padding: 0px; text-align: center;"><a
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ge_2022-03-28_124822.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;"><span style="font-family:
times; font-size: medium;"></div></div><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding:
0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box; line-height: 17.12px; margin:
0px; padding: 0px;"><br
</div><div class="separator" style="border: 0px; box-sizing: border-box; clear:
both; margin: 0px; padding: 0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box;
line-height: 17.12px; margin: 0px; padding: 0px;"><span style="font-family: times; font-size:
medium;">c. Power DC</div><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px;
box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a
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192/image_2022-03-23_125741.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;"><span
style="font-family: times; font-size: medium;"></div><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;
text-align: center;">Gambar 6. Power
DC</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
margin: 0px; padding: 0px; text-align: center;"><span style="font-family: times; font-size:
medium;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border:

Opx; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">d. Switch (SW-SPDT)</div><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;">Gambar 7.

Switch</div><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;">e. Logicprobe atau LED</div><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;">Gambar 8. Logic Probe</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">
</div></div></div>

3. RANGKAIAN SIMULASI [Kembali]</div><div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEg0sW7mOulvHKukuwoA1rrN_W2MRWXubVaynfjLXNRY4FMrOkx2DLzCzMQwBF_kwVEcII1BvoYPuy2Xd3R_OzSkYHnVZCzm-rceHrU

</div></div></div>

</div></div></div>

XiIPvT4fY4_OtKs6erEFOcn4BgLJ2Qae30-l7QbBgYnri1UYZnLo2h5MAS-4wheSt7ri5m8N8lkyEhF4odpp
pQ/s1496/WhatsApp%20Image%202023-07-07%20at%2000.29.22.jpeg" imageanchor="1"
style="margin-left: 1em; margin-right: 1em;"></div>

<span
style="font-family: "times" , "times new roman" , serif;"><span
style="font-size: medium;">4. PRINSIP KERJA RANGKAIAN

[Kembali]</div><div><span
style="font-family: times; font-size: medium;">Pada rangkaian Modul De Lorenzo di atas, terdapat 7
buah input: B0, B1, B2, B3, B4, B5, dan B6. Terdapat BIN/7SEG, dan 1 buah Seven Segment Common
Anoda. B0 berfungsi sebagai penahan output (RBO), B1 berfungsi sebagai penahan input (RBI), B2
sebagai pengecek lampu LED seven segment (Lamp Test), B3 B4 B5 B6 sebagai input pada rangkaian.
Semua input tersebut dihubungkan pada BIN/7SEG, lalu outputnya diteruskan ke seven segment
common anoda. Jangan lupa untuk menghubungkan seven segmen tersebut pada power (vcc) karena
kita menggunakan tipe common anoda.</div><div><span style="font-family: times; font-size:
medium;">
</div><div>Pada
rangkaiannya di atas B0 B1 B2 dibuat berlogika HIGH (karena bersifat aktif low) agar input dapat bekerja
dan output tidak tertahan.</div><div><span style="font-family: times; font-size:
medium;">

<span
style="font-family: "times" , "times new roman" , serif;"><span
style="font-size: medium;">5. VIDEO RANGKAIAN

[Kembali]</div><div><div
class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen=""
class="BLOG_video_class" height="266" src="https://www.youtube.com/embed/YE08jXbfUW4"
width="320" youtube-src-id="YE08jXbfUW4"></iframe></div><span style="font-family: times, times
new roman, serif;">

<span
style="font-family: "times" , "times new roman" , serif;"><span
style="font-size: medium;">6. ANALISA

[Kembali]</div><div
style="text-align: justify;">1. Analisa fungsi LT,
RBO, dan RBI dalam percobaan yang telah dilakukan! Jelaskan juga apa
pengaruhnya!</div><div style="text-align: justify;"><span style="font-family: times; font-size:
medium;">Jawab:</div></div><blockquote style="border: none; margin: 0px 0px 0px 40px;

padding: 0px; text-align: left;"><div><div style="text-align: justify;">a) LT (Lamp Test), jika ini diaktifkan (aktif low) maka semua LED pada seven segment akan hidup. LT berfungsi untuk menyetes semua LED pada seven segment.</div></div><div><div style="text-align: justify;">b) RBO berfungsi untuk menahan output pada seven segment. Jika diaktifkan maka output LED tidak akan aktif.</div></div><div><div style="text-align: justify;">c) RBI berfungsi untuk menahan input pada SW1 SW2 SW3 dan SW4. Jika diaktifkan maka inputnya akan

tertahan.</div></div></blockquote><div><div style="text-align: justify;">
</div><div style="text-align: justify;">2. Jika ingin menampilkan angka 5 dan 8 pada seven segment, bagian mana yang harus diberi logika HIGH? Mengapa demikian? Jelaskan pengaruh dari masing-masing inputan tersebut terhadap nilai 5 maupun output yang ditampilkan!</div><div style="text-align: justify;">Jawab:</div></div><blockquote style="border: none; margin: 0px 0px 0px 40px; padding: 0px; text-align: left;"><div><div style="text-align: justify;">a) Jika ingin menampilkan angka 5 maka, SW1 dan SW3 diberi logika HIGH, namun SW2 dan SW4 berlogika LOW.</div></div><div><div style="text-align: justify;">b) Jika ingin menampilkan angka 8 maka, SW4 diberi logika HIGH, namun SW1 SW2 SW3 berlogika LOW.</div></div><div><div style="text-align: justify;">
</div></div><div><div style="text-align: justify;">Hal ini dikarenakan SW4 adalah MSB dan SW1 adalah LSB.</div></div><div><div style="text-align: justify;">*Jika SW1 dan SW3 berlogika HIGH => 0 1 0 1 => $(0.2^3)+(1.2^2)+(0.2^1)+(1.2^0) = 5$ </div></div><div><div style="text-align: justify;">*Jika SW4 berlogika HIGH => 1 0 0 0 => $(1.2^3)+(0.2^2)+(0.2^1)+(0.2^0) = 8$ </div></div></blockquote><div><div style="text-align: justify;">
</div><div style="text-align: justify;">3. Analisa bagaimana pengaruh BCD ke seven segment!</div><div style="text-align: justify;">Jawab:</div></div><blockquote style="border: none; margin: 0px 0px 0px 40px; padding: 0px;"><div><div style="text-align: justify;">BCD mempengaruhi output yang ditampilkan oleh seven segment. BCD mengkonversi bilangan biner dalam bentuk bit menjadi suatu kondisi segment dalam seven segment menjadi hidup atau mati sesuai nilai bit yang diinputkan.</div></div></blockquote><div style="text-align: justify;">
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<div style="text-align: justify;">7. LINK DOWNLOAD

[Kembali]</div>

</div><div><ul style="background-color: white; color: #222222; font-family: times; font-size: 21.06px;">Download HTML klik disiniDownload Rangkaian <a href="https://drive.google.com/file/d/1sAEOwYt9iEw-Xuebv_hVFzYoLvaZDi23/view?usp=drive_link"

target="_blank">klik <a
href="https://drive.google.com/file/d/1sAEOWYt9iEw-Xuebv_hVFzYoLvaZDi23/view?usp=drive_link"
target="_blank">disiniDownload
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target="_blank">klik disini<span style="font-size:
medium;">Download Data Sheet BCD Decoder <a
href="https://drive.google.com/file/d/1EumZ80eVnssLkmfrAeFnwPb_aEzd-JFe/view?usp=drive_link"
target="_blank">klik <a
href="https://drive.google.com/file/d/1EumZ80eVnssLkmfrAeFnwPb_aEzd-JFe/view?usp=drive_link"
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target="_blank">klik <a
href="https://drive.google.com/file/d/1Iqu2vCqrdB0N_R-y7DrTchEwOwUf0Ecc/view?usp=drive_link"
target="_blank">disini<span style="font-size:
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href="https://drive.google.com/file/d/10UkatBNue3SQeZ6yIXJR03NXaMEQnzkr/view?usp=drive_link
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href="https://drive.google.com/file/d/10UkatBNue3SQeZ6yIXJR03NXaMEQnzkr/view?usp=drive_link
" target="_blank">disini</div>
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