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<a name="home">

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

<a href="https://dhellaym213003.blogspot.com/2023/06/modul-2.html">[KEMBALI KE MENU
SEBELUMNYA]</a></div>

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<center>

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<b>DAFTAR ISI</b>

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

<a href="#kondisi">1. Jurnal</a></div>

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

<a href="#hardware">2. Alat dan Bahan</a></div>

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<a href="#prinsip">7. Link Download</a><br />

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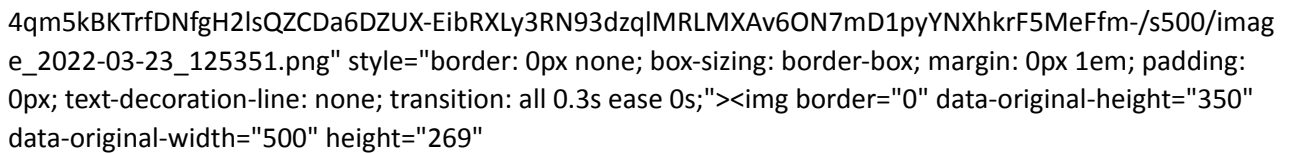
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style="font-family: &quot;times&quot; , &quot;times new roman&quot; ,
serif;"><b></b></span></span></p><div style="font-size: medium;"><span style="font-family:
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&quot;times&quot; , &quot;times new roman&quot; , serif;"><b><span style="font-family:
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"times" , "times new roman" , serif;">
</div>1. Jurnal

[Kembali]<p></p><p style="text-align: center;">
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2. Alat dan Bahan

[Kembali]</div><div><p style="border: 0px none; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">Alat
<p><p>a. Jumper</p><p></p><div class="separator" style="border: 0px none; 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 none; 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 1. Jumper</div><div class="separator" style="border: 0px none; 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 none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">b.Panel DL 2203D </div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">c.Panel DL 2203C </div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">d.Panel DL 2203S</div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj1gmQWHYkOosUSexFIVJ8xd80acd zzeYj_Nnyw3tfVSpVXaHMxdEw7vDhNrztvuAExFaQraUkxGZyE1Mm2HGHNdndb3TVok56MEgqSKDGysF_a-6

4qm5kBKTrfDNfgH2lsQZCda6DZUX-EibRXLy3RN93dzqlMRLMXAv6ON7mD1pyYNXhkrF5MeFfm-/s500/image_2022-03-23_125351.png" style="border: 0px none; box-sizing: border-box; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"></div><div class="separator"

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Lorenzo</div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both;

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none; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><h3 style="border: 0px none; box-sizing:

border-box; margin: 0px; padding: 0px; text-align: left;"><span style="font-family: inherit; font-size:

small;"><p style="text-align: left;">Bahan </p><div

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0px;"><p class="MsoNormal" style="border: 0px none; box-sizing: border-box; color: #444444; margin:

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Decoder </p><div class="separator" style="border: 0px none; box-sizing: border-box; clear:

both; color: #444444; font-size: 15px; margin: 0px; padding: 0px;"><div class="separator" style="border:

0px none; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica,

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href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiU9hX4DBTQTH4pXpyMHI5RAbYBZ 4W4UQ_9bv18BLJKSc3FeuQzpQgFQD4sXV_TNUWjrPNYqEO8-QcrJ2pDTDJURnYUfIIeEu5rpkxXsALKoxvF-jB OsEo5dGVWnzYdKa943ppKLb1VDU1znKL8XuQqooznF0uIX5UQI5ydKKYgGmZpgbBuG_8X7BYv/s238/image

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sans-serif; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><span

face=""open sans"; arial, helvetica, sans-serif" style="border: 0px none; box-sizing:

border-box; margin: 0px; padding: 0px;"> <span style="font-family:

inherit;">b. Seven segment</div><div class="separator" style="border: 0px none; box-sizing:

border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif;

font-size: 15px; margin: 0px; padding: 0px;"> <div class="separator" style="border: 0px none;

box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgQUE2leNgfQdx2KqC9fIJfz4ru74etL 35SQG6fFzLVXaEN9d4cVa805cwIfnjp2mxfilvP75piqdqhV7WfgLwYJWbIAt2jiB9kqrs8B09XgFGMXJwBi_tObV zcMOLsMR_RAVIY-WIO70j-Yuf5PnAjzGibwPBliYKuMYNSNWAEGuNGiYIB1xYBj3It/s198/image_2022-03-28 _124822.png" style="border: 0px none; box-sizing: border-box; color: #597e00; margin: 0px 1em; padding:

Opx; text-decoration-line: none; transition: all 0.3s ease 0s;"></div><br style="box-sizing: border-box;" /><br style="box-sizing: border-box;" /><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; color: #444444; font-size: 15px; margin: 0px; padding: 0px;">c. Power DC</div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; color: #444444; font-size: 15px; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 6. Power DC</div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">d. Switch (SW-SPDT)</div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; font-family: "open sans"; arial, helvetica, sans-serif; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhrjm5y7iI0DdhUTFJkPIZ8xwrF_TEtWFEDzxQA7ymv6SC5JAXRqcubeB1KzKn_1x5vdEQCw1I8XP92AYJxhMOFxMLm-QQuxxzrts0LG_9QEvqiTVPcf

nR-e3w3sDWnlc54yYRhkZCvpMPkd7y-QxxXgjlHrPNr-pLpkHqkAEHXLLNUYwm5FduL9y6/s839/Screenshot%20(1002).png" style="margin-left: 1em; margin-right: 1em;"></div><div><div class="separator" style="clear: both; text-align: center;">Gambar. Rangkaian Percobaan </div>
</div><div>

4. Prinsip Kerja Rangkaian

[Kembali]</div>Pada percobaan 2 ini, digunakan Seven Segment sebagai piranti tampilan modern yang terdiri dari pola 7-segmen atau dot matriks. Seven segmen jenis ini menggunakan tujuh batang yang disusun membentuk angka 8.

Dalam percobaan ini, dirangkai sebuah rangkaian seven segment dengan menggunakan 6 saklar SW-SPDT, IC 74LS47, dan sebuah seven segment. Switch B6 hingga B3 terhubung ke input A pada IC 74LS47, dan output dari IC ini terhubung ke seven segment. Switch B2 hingga B0 terhubung ke pin BI/RBO, RBI, dan LT pada IC 74LS47. Pin BI/RBO berfungsi untuk menahan data output ke penampil 7 segmen (disable output), dimana jalur RBO ini akan aktif saat diberikan logika LOW. Pin RBI berfungsi untuk menahan sinyal input (disable input), dan jalur RBI akan aktif bila diberikan logika LOW. Pin LT berfungsi untuk menyalakan semua LED pada penampil 7 segmen, dan jalur LT akan aktif saat diberikan logika LOW pada jalur tersebut.

Dalam percobaan ini, dilakukan eksperimen untuk melihat tampilan angka 0 hingga 8 pada rangkaian Decoder BCD Seven segment. Untuk mendapatkan tampilan tersebut, kita dapat memvariasikan input pada switch B6 hingga B3 sesuai dengan bilangan biner 0 hingga 8. Dengan demikian, akan didapatkan tampilan pada seven segment dari angka 0 hingga 8.</div><div>
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5. Video Rangkaian

[Kembali]</div><div style="text-align: center;"><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="fd40b1356e3f32f1" height="266" id="BLOG_video-fd40b1356e3f32f1" width="320"></object></div>
</div><div>

6. Analisa

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1. Analisa pengaruh LT RBO, RBI

Jawab

LT berfungsi untuk mengeset display, dimana saat dibeli logika nol maka semua keluaran IC akan bernilai 0.

RBO berfungsi untuk mematikan keluaran dari IC

RBI berfungsi untuk mematikan keluaran dari IC apabila semua input berlogika nol.

2. Analisa pengaruh BCD decoder to seven segmen pada rangkaian

Jawab

BCD sendiri mengubah input biner menjadi bilangan desimal sehingga

seven segment dapat menampilkan angka. Input 0 ini berperan sebagai MSB

dan input A sebagai LSB. Pengaturan input akan menampilkan output yang

sesuai.

7. Link Download

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Simulasi Rangkaian

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style="text-decoration-line: none;">klik

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Praktikum

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Datasheet JK FLIP
FLOP

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Datasheet Seven
Segment

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>klik disini

Download Datasheet
Switch

<https://drive.google.com/uc?export=download&id=1VI97e-ddhHFHVYLqQ7Qgj0dYcZ8sXqX6>
style="text-decoration-line: none;">klik disini