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<a name="home">
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<div style="text-align: center;">
<a href="#">[KEMBALI KE MENU SEBELUMNYA]</a></div>
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padding: 10px; text-align: center; width: 330px;">
<b>DAFTAR ISI</b>
<br />
<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>
<div style="text-align: left;">
<a href="#rangkaian">3. Rangkaian Simulasi</a></div>
<div style="text-align: left;">
<a href="#flowchart">4. Prinsip Kerja Rangkaian</a></div>
<div style="text-align: left;">
<a href="#listing">5. Video Rangkaian</a></div>
<div style="text-align: left;">
<a href="#video">6. Analisa</a></div>
<div style="text-align: left;">
<a href="#prinsip">7. Link Download</a><br />
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style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif; font-size:
small;"><b><div><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 /></b></span></span></div>1. Jurnal</b>
<a name="kondisi"></a>
<a href="#home">[Kembali]</a></span></span></div><div class="separator" style="clear: both; text-align:
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1em;"></a></div><br /><span
style="font-family: times, times new roman, serif;"><br /></span></div><div><span style="font-family: times,
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style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif; font-size: small;"><b>2. Alat
dan Bahan</b>
<a name="hardware"></a>
<a href="#home">[Kembali]</a></span></span></div><div><div id="alat" style="background-color: white;
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box-sizing: border-box; color: #222222; font-family: times, &quot;times new roman&quot;, serif; font-size:
small; margin: 0px; padding: 0px;">a.. Jumper</div><div class="separator" style="background-color: white;
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roman&quot;, serif; font-size: small; margin: 0px; padding: 0px; text-align: center;"><a
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Jumper</div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #222222; font-family: times, &quot;times new roman&quot;, serif; font-size: small; 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: #222222; font-family: times, &quot;times new roman&quot;, serif; font-size: small; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">b.Panel DL 2203D&nbsp;</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">c.Panel DL 2203C&nbsp;</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">d.Panel DL 2203S</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj1gmQWHYkOosUSexFIVJ8xd80acdzzYj\_Nnyw3tfVSpVXaHMxdEw7vDhNrztvuAExFaQraUkxGZyE1Mm2HGHNdnb3TVok56MEgqSKDGysF\_a-64qm5kBKTrfDNfgH2lsQZCda6DZUX-EibRXLY3RN93dzqlMRLMXAv6ON7mD1pyYNXhkrF5MeFfm-/s500/image\_2022-03-23\_125351.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;"></a></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; 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; 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; 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)&nbsp;<a href="http://www.laboreldi.or.id/p/modul-2-decoder-bcd-seven-segment.html#home" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;">[kembali]</a></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><p class="MsoNormal" style="border: 0px; box-sizing: border-box; margin: 0cm 0cm 0cm 18pt; padding: 0px;">a. BCD Decoder&nbsp;</p><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 href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiU9hX4DBTQTH4pXpyMH15RAbYBZ4W4UQ\_9bv18BLJKSc3FeuQzpQgFQD4sXV\_TNUWjrPNYqEO8-QcrJ2pDTDJURnYUfIIIEu5rpkxXsALKoxvF-jBOsEo5dGVWnzYdKa943ppKLb1VDU1znKL8XuQqooznF0uIX5UQI5ydKKYGGMzpgbBuG\_8X7BYv/s238/image\_2022-03-28\_124743.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 class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><span style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>b. Seven segment</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">&nbsp;<div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgQUE2leNgfQdx2KqC9fJfz4ru74etL35SQG6ffzLVxAXeN9d4cVa805cwIfnjP2mxfiVp75piqdqhV7WfgLwYJWBAt2jiB9kqrs8B09XgFGMXJwBi\_tObVzcMOLsMR\_RAVIY-WIO70j-Yuf5PnAjzGibwPBiqYKuMYNSNWAEGUNGiYIB1xYBj3It/s198/image\_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;"></a></div><br style="box-sizing: border-box;" /><div style="box-sizing: border-box;" /><span lang="EN-US" style="border: 0px; box-sizing: border-box; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></span></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; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;">c. Power DC</span></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; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></span></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 href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiiFCpqI-hK4HMFsTtWx-k63-IZKbRxgl5nzCc7JeiAalMiPGMBKUN\_FYR-WP1ziACvUliQsf8WaWFFo0ZPi5mtkodnnow-Dg8joTApnKVgJyYpwI3OR5FTlpmPMf3rBeiZxVy1qVEbmQGQg\_1R3Jfc2FHjrFwjN7l\_UmWBGifWrwIKEJHtUu5wHwSn/s192/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;"></a></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;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; 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;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhrrjm5y7il0DdhUTFjkPIZ8xwrF\_TEtWFEDzxQA7ymv6SC5JAxRqcubeB1KzKn\_1x5vdEQCW1l8XP92AYJxhMOFxMLm-QQuxxzrts0LG\_9QEvgITVPcfG5gO91nJYqvKJQx-fIkEHYHjiJmt4v84hvA3iHEiYL03v7LWm7Z40TOtklPAes8MVQqtWJg/s177/image\_2022-03-23\_125741.png" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: none; box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; box-sizing: border-box; margin: 0px; max-width: 100%; padding: 0px; position: relative;" width="177" /></a></div>

[illegible]

input 1</span>>. Pin input terdiri dari 4 line input untuk 4 bit data BCD dengan</span>> input A, B, C dan D yang merupakan untuk pin angka. A merupakan LSB dan D MSB.</span>></span>>uput 7 segmen, pin output ini berfungsi untuk</span>> menampilkan data pengkodean ke penampil 7 segmen.</span>></span>>Pin output ke 7 segmen ini ada 7 pin yang masing-masing diberi nama a, b, c, d, e, f dan g.</span>>

</span></span>>  
</span></span></span>>LT (Lamp Test) yang berfungsi untuk menyalakan semua LED pada penampil 7 segmen, jalur LT akan aktif pada saat diberikan logika LOW pada jalur LT tersebut. mengouputkan angka 8 . dibiarkan saja dalam keadaan aktif high agar tidak mempengaruhi output.</span></span></span></span></span>>RBI (Riple Blanking Input) yang berfungsi untuk menahan sinyal input (disable input), jalur RBI akan aktif bila diberikan logika LOW. RBI dibiarkan saja dlam keadaan aktif high. agar tidak mempengaruhi output</span></span></span></span></span>>RBO (Riple blanking Output) yang berfungsi untuk menahan data output ke penampil 7 segmen (disable output), pin RBO ini akan aktif pada sat diberikan logika LOW.</span></span></span></span></span>></span></span>></span></span></span></span>**5. Video Rangkaian**  
[</a></span></span></span></span></span>></span></span>></span></span></span></span>\*\*6. Analisa\*\*  
\[</a></span></span></span></span></span>></span></span>></span></span></span></span>\\*\\*1. Analisa pengaruh LT, RBO, RBI jika diaktifkan\\*\\*</span></span></span></span></span>>LT \\(Lamp test\\) berfungsi untuk menyalakan semua led pada penampil 7 segmen, jalur LT akan aktif pada saat diberikan logika 1 pada jalur LT tersebut.</span></span></span></span></span>>RBO \\(Riple blanking Output\\) yang berfungsi untuk menahan data output ke penampil 7 segmen \\(disable output\\), jalur RBO ini akan aktif pada saat diberikan logika 1.</span></span></span></span></span>>RBI \\(Riple Blanking Input\\) yang berfungsi untuk menahan sinyal input \\(disable input\\), jalur RBI akan aktif bila diberikan logika 1.</span></span></span></span></span>>\\*\\*2. Analisa pengaruh bcd decoder to seven segment pada rangkaian\\*\\*</span></span></span></span></span>>IC ini berfungsi untuk mengubah kode bilangan biner BCD \\(Binary Coded Decimal\\) menjadi data tampilan untuk penampil/display 7 segment</span></span></span></span></span>> yang bekerja pada tegangan TTL \\(+5 volt DC\\). Pada rangkaian digunakan aplikasi decoder, jadi ketiga jalur kontrol \\(LT, RBI dan RBO\\) harus diberikan logika HIGH dengan tujuan data input BCD dapat masuk dan penampil 7 segmen dapat menerima data tampilan sesuai data BCD yang diberikan pada jalur input. IC ini biasanya\]\(#\)](#)

dipasangkan dengan 7 segment common anode. Hal ini dikarenakan output untuk IC ini berlogika low.

[\[Kembali\]](#)

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