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<b>DAFTAR ISI</b>
<br />
<div style="text-align: left;">
<a href="#jurnal">1. Jurnal</a></div>
<div style="text-align: left;">
<a href="#alat">2. Alat Dan Bahan</a></div>
<div style="text-align: left;">
<a href="#rangkaian">3. Rangkaian</a></div>
<div style="text-align: left;">
<a href="#prinsip">4. Prinsip Kerja</a></div>
<div style="text-align: left;">
<a href="#analisa">5. Analisa</a></div>
<div style="text-align: left;">
<a href="#video">6. Video</a></div>
<div style="text-align: left;">
<a href="#link">7. Link</a></div>
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</div></center><div><br /></div><div id="jurnal" style="text-align: left;"><span
style="font-family: times;">1. Jurnal<span style="font-family:
times;"><a href="#atas">[Kembali]</a></span></div><div
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times;"><br /></span></div><div class="separator" style="clear: both; text-align:
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%201.06.43%20PM.jpeg" style="margin-left: 1em; margin-right: 1em;"></a></div><br /><div class="separator" style="clear: both; text-align: center;"><br /></div><br /><span style="font-family: times;"><br /></span></div><div class="separator" style="clear: both; text-align: center;"><br /></div><div style="text-align: left;"><span style="font-family: times;"><br /></span></div><div style="text-align: left;"><div style="box-sizing: border-box;"><div style="box-sizing: border-box; text-align: justify;"><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><p style="box-sizing: border-box; text-align: left;"><span style="font-family: times;">2. Alat Dan Bahan&nbsp;<a href="#atas">[Kembali]</a></span></p><p style="box-sizing: border-box;"><p><table align="center" cellpadding="0" cellspacing="0" class="tr-caption-container" style="background-color: white; border-collapse: collapse; border-spacing: 0px; margin-bottom: 0.5em; margin-left: auto; margin-right: auto; padding: 4px; position: relative; text-align: center;"><tbody style="box-sizing: border-box;"><tr style="box-sizing: border-box;"><td style="box-sizing: border-box; padding: 0px;"><span style="box-sizing: border-box;"><span style="font-family: times;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjrecb38DeX1iJZTCJadWbCVQq4XzEYAa-Tf9Bc4tpzS4BxpxBd8R0jMe3z09qbBofEks1x\_TEUe5f9kIf15\_ujro80FWmWEAiZ8j90bkTjA6eMiedpYwnC3W2clx4kKLFLN\_i2ngVAPqj9vBCichQZRgde3gvqCY\_KLj\_N3bOJaOxU2milWGzQ8uvNw/s705/image\_2022-03-18\_085821.png" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: auto; margin-right: auto; text-decoration-line: none;"></a><br style="box-sizing: border-box;" /><br style="box-sizing: border-box;" /></span></span></td></tr><tr style="box-sizing: border-box;"><td class="tr-caption" style="box-sizing: border-box; padding: 0px;"><span style="font-family: times;">Gambar 1.1 Module D`Lorenzo<br style="box-sizing: border-box;" /></span></td></tr></tbody></table><p style="box-sizing: border-box;"><p><p style="box-sizing: border-box;"><span style="box-sizing: border-box;"><span style="font-family: times;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEipUzYHeWxscSojh4P0HIBd9O0mqoTDnAiUy8k3HCQI\_hhQqKtvT7\_ZqCFgANc1FzmsiwJnimTmRDJPzMsyW9USrhy1nmKrOL7cyj3E5khy9YwVAKSGZNGVE-Ih0Gc1vKQID7kibpgykduQ7g4lCw61Qtw7nadmUrLANtAFoM8UpoQ6LJp9GQWcua1S2g/s320/image\_2022-03-18\_085850.png" style="background: white; box-sizing: border-box; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></span></span></p><table align="center" cellpadding="0" cellspacing="0" class="tr-caption-container" style="background-color: white; border-collapse: collapse; border-spacing: 0px; color: #424242; font-size: 14.85px; margin-bottom: 0.5em; margin-left: auto; margin-right: auto;

padding: 4px; position: relative; text-align: center;"><tbody style="box-sizing: border-box;"><tr style="box-sizing: border-box;"><td style="box-sizing: border-box; padding: 0px;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEipUzYHeWxscSojh4P0HIBd9O0mqoTDnAiUy8k3HCQI\_hhQqKtvT7\_ZqCFgANc1FzmsiwJnimTmRDJPzMsyW9USrhy1nmKrOL7cyj3E5khy9YwVAKSGZNGVE-lh0Gc1vKQID7kibpgykduQ7g4ICw61Qtw7nadpUrLANtAFoM8UpoQ6LJp9GQWcua1S2g/s320/image\_2022-03-18\_085850.png" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: auto; margin-right: auto; text-decoration-line: none;"><span style="box-sizing: border-box; color: black; font-size: small;"><span style="font-family: times;"></span></span></a></td></tr><tr style="box-sizing: border-box;"><td class="tr-caption" style="box-sizing: border-box; padding: 0px;"><span style="box-sizing: border-box; color: black; font-size: small;"><span style="font-family: times;">Gambar 1.2 Jumper<br style="box-sizing: border-box;" /><br style="box-sizing: border-box;" /><div style="box-sizing: border-box; text-align: left;">Gerbang Logika XOR ( IC 4030)</div><div style="box-sizing: border-box; text-align: left;"><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjDVacXoXaXJC8Cv935VnmGVJN9uETVNzUCxtyKt6QivKrv8bn4CTY2DE7yhOhAWHkh4eLV9bqJzi8YDW4DS4MCo-gl2sj60Rn6RJFPGADQHcwwX7CRKE-Eyq5H9Q\_Jid8-sDXOQkwBL59J7r\_pHfmMSQP17YPf6xSPQKxpIMfAPgC2VXB2a\_11EvIXTw" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div style="box-sizing: border-box;">Gerbang logika XOR adalah singkatan dari EXclusive OR gate yang outputnya hanya akan bernilai logika 1 jika salah satu input X atau Y dalam keadaan bernilai logika 1, ketika semua inputnya dalam keadaan logika 0 atau dalam keadaan logika 1 maka output akan tetap logika 0.</div><div style="box-sizing: border-box;"><br style="box-sizing: border-box;" /></div><div style="box-sizing: border-box;"><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><span style="box-sizing: border-box; text-align: left;"><div style="box-sizing: border-box; text-align: justify;">NAND GATE</div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj-xfvYMivhpDynSqjvWxjjmGCfAs7HDk8YpePAXpk0xSiwRGMiE-6klYVe9P8udAtD9WFFPjsZ8qc1\_VK5oSQu4EWMJnwEDrFfmq9NMAFbYcGNwKQH8BNrDa998X\_hCvcoFNYyIsG9avYf2UvcxN92WKlpdRi1DwW8E4IJx4TbaKeG19X60PojfheNog/s331/NAND%20GATE.png" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: 1em; margin-right: 1em;

text-decoration-line: none;"></a></div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><div class="separator" style="box-sizing: border-box; clear: both;">ketika inputnya ada yang 0 maka akan menghasilkan output 1. tapi ketika ada input yang berlogika 1</div><div class="separator" style="box-sizing: border-box; clear: both;">maka outputnya menjadi 0</div></div><div style="box-sizing: border-box; text-align: justify;">AND GATE</div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgGoi3zzV8-6D1IZ5-hRbZGMdjPiHlyGBuA5IosLtiHci-atuh2Tyool8bD2oY343JVE1M0BcvbUxUEDlj0tk6XoteYXNa WExfHSZmLwgepS6LD95XXxVZ72iX\_zH6AYrPWFZYLDlq2sYGldv-t3tdvi4\_cTM0JwzOnCN BNgWQyyfwvjgdPHrC7QD5Ew/s332/AND%20GATE.jpg" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;">ketika inputnya sama-sama 1 maka akan menghasilkan output 1. tapi ketika ada input yang berlogika 0</div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;">maka outputnya menjadi 0</div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="box-sizing: border-box; clear: both; text-align: justify;"><span style="box-sizing: border-box; text-align: left;">Gerbang Logika OR (IC 7432)</span></div></span></div><div class="separator" style="box-sizing: border-box; clear: both; text-align: center;"><div class="separator" style="box-sizing: border-box; clear: both;"><div class="separator" style="box-sizing: border-box; clear: both;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEhpnAljl-N4Q2bEyDV8iR2xqVwuK YUcnoR5Pajx33sFq3pC8wBzkEWB94RJca6Je7r04kFD8iuabBI4\_7mAESpE3JWSQVPUK VVegmaGBBoyEnBANcpDsWxs8NPCfuErBC49T\_cKjOrNR6iPFLjWv5D7LJVGwMhDdKvq8O ht3pgFIZ4Hj49TNmwtBnAKjw" style="background: transparent; box-sizing: border-box; color: #2196f3; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><br style="box-sizing: border-box;" /></div><span style="box-sizing: border-box; text-align: left;"><div

style="box-sizing: border-box; text-align: justify;">Gerbang OR atau disebut juga "OR GATE" adalah jenis gerbang logika yang memiliki dua input (Masukan) dan satu output (keluaran). Meskipun memiliki pengertian yang sama dengan gerbang OR tapi memiliki perbedaan pada simbol dan tabel

kebenaran.</div></span></div></div></span></span></td></tr></tbody></table><p

style="box-sizing: border-box;"><span style="font-family: times;">a

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background-position: initial; background-repeat: initial; background-size: initial; box-sizing: border-box; color: #2196f3; text-decoration-line: none;">&nbsp;3.Rangkaian</a><a

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none;">[kembali]</a></span></p><div class="separator" style="box-sizing: border-box; clear: both;"><a

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text-align: start;" /></span></p><p style="background-color: white; box-sizing: border-box; text-align: start;"><span id="prinsip" style="font-family: times;"><span style="font-size:

15px;">4. Prinsip Kerja&nbsp;<a href="#atas">[Kembali]</a></span></span></p><p style="background-color: white; box-sizing: border-box; text-align: start;"><span

style="font-family: times;"><span style="font-size: 15px;">Multivibrator adalah rangkaian elektronika yang menghasilkan sinyal kotak.salah satu jenis dari multivibrator yaitu&nbsp;monovibrator monostabil yang mana merupakan rangkaian multivibrator yang memiliki satu keadaan stabil.</span></span></p><p style="background-color: white; box-sizing:

border-box; text-align: start;"><span style="font-family: times;"><span style="font-size: 15px;">pin A dan B berfungsi sebagai pin input .pin A merupakan aktif low yang mana aktif

ketika berlogika 0 dan pin B merupakan aktif high yang mana aktif ketika berlogika 1. pin Q adalah pin ouput dan pin Q' merupakan pin output dan hasilnya kebalikan dari pin Q.</span></span></p><p style="background-color: white; box-sizing: border-box; text-align:

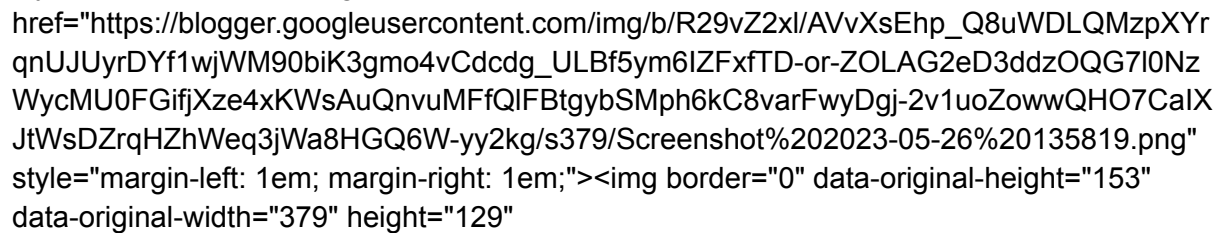
start;"><span style="font-family: times;"><span style="font-size: 15px;">pada rangkaian multivibrator ini ,memiliki satu keadaan stabil dan apabila pin input diubah maka output akan

berubah namun akan kembali ke keadaan stabilnya.

Analisa

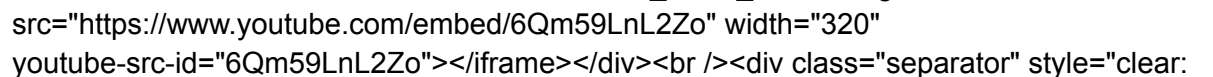
Pengaruh perbedaan kapasitor dan resistor terhadap nyala LED sesuai dengan hasil praktikum didapatkan hasil jika semakin besar capasitor dan resistor yang dipakai semakin lama LED akan menyala

B. Analisa dan Bandingkan hasil jurnal yang didapatkan di praktikum dengan hasil jurnal perhitungan, carilah persentase errornya.



C. Analisa jenis multivibrator dan kenapa saat  $A = 0$  di trigger risetime sedangkan saat  $B = 1$  di trigger falltime. pada saat praktikum multivibrator yang digunakan adalah monostabil oleh karena itu didapatkan output yang stabil pada 1 keadaan hingga diberi trigger, ketika diberi trigger dan alsaan diberi rise time disaat  $A = 0$  dan fall time disaat  $B = 1$  karena A itu bejenis aktif rendah dan jika diberi trigger falltime maka output yang didapatkan tetap pada low / 0

6. Video



7. Link

Video Simulasi

Rangkaian

Datasheet

AND GATE

OR Gate

[\\_link">Klik</a><br /></span></div><div><span style="font-family: times;">XOR  
Gate&nbsp;<a  
href="https://drive.google.com/file/d/1eHblzVqxYVmZvslDot4UHNbTipmw3VV/s/view?usp=s  
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Gate&nbsp;<a  
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Gate&nbsp;<a  
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are\\_link">Klik </a></span></div></div></div></div></div></div>](#)