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<a href="#">[KEMBALI KE MENU SEBELUMNYA]</a></div>
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auto; padding: 10px; text-align: center; width: 330px;">
<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="#video">6. Analisa</a></div>
<div style="text-align: left;">
<a href="#prinsip">7. Link Download</a><br />
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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><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>

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[kondisi](#)

[\[Kembali\]](#)

2. Alat dan Bahan

hardware

[\[Kembali\]](#)

A) IC NAND 7400



A) IC XOR 4030



Spesifikasi

- Logic IC Type: XOR GATE



```
style="clear: both; "><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span></div><table align="center" cellpadding="0" cellspacing="0" class="tr-caption-container" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 1px solid rgb(241, 241, 241); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; color: #222222; margin-bottom: 0.5em; margin-left: auto; margin-right: auto; padding: 5px; position: relative;"><tbody><tr><td style="text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgWMxXJ8SQZ5su4zOdquC9gsxN4apBJaMJf-B1OHxy6w9xJlJewqov8EaEI_96eVIRbKRpEwuNCRiKw9ZlWqEGYZysGAJjsgXpJ71R1xtRwrHiztHktwWcxpjhgDzjVVEfE3W6va1noivcHNbzxoAKX2Zy5iTpnqg0OIgc6PKqg_UOyhG24Kkt81Y0/s600/ic4071.jpg" style="color: #cf3b26; margin-left: auto; margin-right: auto; text-decoration-line: none;"></a></td></tr><tr><td class="tr-caption" style="font-size: 12.32px; text-align: center;"><div style="text-align: justify;">Spesifikasi :</div><ul style="color: #202122; font-family: sans-serif; font-size: 14px; line-height: 1.4; list-style-image: url(&quot;/w/skins/Vector/resources/common/images/bullet-icon.svg?d4515&quot;); margin: 0.3em 0px 0px 1.6em; padding: 0px; text-align: start;"><li style="margin: 0px 0px 0.1em; padding: 0px;">Pin 7 is the negative supply</li><li style="margin: 0px 0px 0.1em; padding: 0px;">Pin 14 is the positive supply</li><li style="margin: 0px 0px 0.1em; padding: 0px;">Pins 1&amp;2, 5&amp;6, 8&amp;9, 12&amp;13 are gate inputs</li><li style="margin: 0px 0px 0.1em; padding: 0px;">Pins 3, 4, 10, 11 are gate outputs</li></ul></td></tr></tbody></table><br /><div class="separator" style="clear: both;"><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span><span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span></span></span></div><b><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;"><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; color: #505050; font-family: times, &quot;times new roman&quot;, serif; font-size: 15.4px; font-weight: bold; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgTnTshOdc9NAb7ZW1IPxo4aAS-OuzaAiHrYMV8qIpYutsyXNLVBhDTPiIU3SQ2QtavKQN5YR6AmM9neRLWuXH2UbmjUeo8fIAAI-GxpS6SGfizcbl34o5uoaHVdA9hUe_jzzSLxrjnuN4JNzjZgBfbSsrw1FnZLk6-yLsvz5-nIVxQs7ywqmDcPeS1/s198/image_2022-03-23_130029.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;"><br /></div><div class="separator"
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terminal input OR bernilai 0 maka outputnya akan bernilai 0 juga. Kemudian diteruskan ke gerbang logika XOR, yang mana ketika jumlah inputan yang masuk di gerbang XOR berjumlah genap maka outputnya akan bernilai 0, sedangkan jika inputnya berjumlah ganjil maka outputnya akan bernilai 1. Pada percobaan ini gerbang logika XOR memiliki input genap sehingga outputnya bernilai 0. Kemudian diteruskan ke gerbang logika XNOR. gerbang XNOR ini bekerja layaknya gerbang XOR namun nanti hasilnya di NOT-kan. Pada percobaan ini karena hasil dari XOR tadi bernilai 0 maka inputan untuk gerbang XNOR berjumlah genap (bernilai 0) lalu di NOT-kan sehingga outputnya bernilai 1. Karena output dari gerbang XNOR ini bernilai 1, LED menyala dan ini menandakan bahwa arus mengalir dalam rangkaian ini.

**5. Video Rangkaian**

[listing](#)

[\[Kembali\]](#)

**6. Analisa**

**6. Analisa**

[video](#)

[\[Kembali\]](#)

Percobaan 1

Analisa Pengaruh Clock terhadap masing-masing output gerbang logika!

Jawab:

**1.** Gerbang NOT

Melakukan operasi terhadap input tunggal dan menghasilkan output kebalikan dari input

&nbsp;

tersebut.

**b). Gerbang AND**

Ketika input B1 bernilai 0 dan dikalikan dengan input clock maka akan menghasilkan output bernilai 0. Sedangkan ketika B1 bernilai 1 kemudian dikalikan dengan input clock maka akan menghasilkan output yang akan sama dengan sinyal input clock.

**c). Gerbang OR**

Ketika input B1 bernilai 0 dan di jumlahkan dengan input clock maka outputnya akan bernilai sama dengan sinyal clock. Sedangkan ketika B1 bernilai 1 maka outputnya akan bernilai sama dengan input clock.

**d). Gerbang XOR**

Ketika input B1 bernilai 0 dan dijumlahkan input clock, jika hasil jumlahnya berupa bilangan genap maka outputnya akan bernilai 0, jika berupa bilangan ganjil outputnya akan bernilai 1.

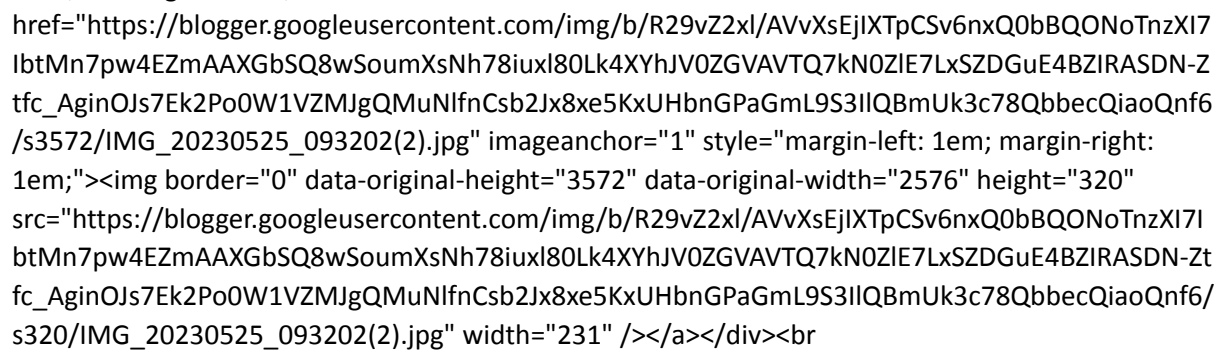






**1. Buktikan fungsi percobaan 2 dengan menggunakan peta karnough!**

**Jawab:**



**7. Link Download**

[prinsip](#)

[\[Kembali\]](#)

[https://docs.google.com/document/d/1v8-r0b-UCVCYHOgbWpAn6S53SnuSBRq/edit?usp=share\\_link&ouid=112049583686282834585&rtpof=true&sd=true](https://docs.google.com/document/d/1v8-r0b-UCVCYHOgbWpAn6S53SnuSBRq/edit?usp=share_link&ouid=112049583686282834585&rtpof=true&sd=true) > klik disini

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