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Download</span></a><br />
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<br style="border: 0px; margin: 0px; padding: 0px;"><span style="font-family: arial;"><br style="border: 0px; margin: 0px; padding: 0px;"></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family: arial;">e.&nbsp; IC&nbsp;<span style="color: black; font-size: medium;">74LS112</span>&nbsp;(JK filp flop)</span></div><div style="border: 0px none; box-sizing: border-box; margin: 0px; padding: 0px;"><span style="font-family: arial;"><br style="border: 0px; margin: 0px; padding: 0px;"></span></div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhl1aKMaltSdBDhiN3dz2pUkTDxQWZApRpJi4R6UldyEuiDfS8FytTiXgJ0RP1BdS9ZxJYxZr4tWL-LP4z7owDhDHMP2zXr7DOsTGt7nmL26HZWS9mXASyvd6R8sFjDgsTTI-\_L85kXyP0ox0awhzgl1MZGMxKWrs9rpoJtlEIGY0Kd1fVYy6iqfBtYHQ/s225/ic%2074LS112A.jpg" style="margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><span style="color: black; font-family: arial;"></span></a></div><span style="font-family: arial;"><br /></span><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><span style="font-family: arial;"><br /></span></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; text-align: center;"><span style="font-family: arial;"><br /></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: left;"><span style="font-family: arial;">f. 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Switch</span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family: arial;"><br /></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family: arial;"><br style="box-sizing: border-box;" /></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: left;"><span style="font-family: arial;">g. Power Supply</span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: left;"><div class="separator" style="clear: both; font-size: 13.2px; text-align: center;"><span><span style="font-family: arial; font-size: small;"><a href="https://1.bp.blogspot.com/-4Dakr\_cCxaM/YCp1SAQk4II/AAAAAAAAACJk/zvDjsnnyrpKH3DC\_jbSm0h7ympaG8VZjwCLcBGAsYHQ/s239/power%2Bsuply.jpg" style="margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family: arial;"><br style="box-sizing: border-box;" /></span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: left;"><span style="font-family: arial;">h. Logicprobe atau LED</span></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgTnTshOdc9NAb7ZW1IPxo4aAS-0uzaAiHrYMV8qlpYutsyXNLVBhDTPiIU3SQ2QtavKQN5YR6AmM9neRLWuXH2UbmjUeo8fIAAI-GxpS6SGfizcbl34o5uoaHVdA9hUe\_jzzSLxjrnuN4JNzjZgBfbSsrw1FnZLk6-yLsvz5-nIVxQs7ywqmDcPeS1/s198/image\_2022-03-23\_130029.png" style="border: 0px none; box-sizing: border-box; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="color: black; font-family: arial;"></span></a></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><span style="font-family:

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center;"><iframe allowfullscreen="" class="BLOG\_video\_class" height="266" src="https://www.youtube.com/embed/ZroVL7Vf4q4" width="320" youtube-src-id="ZroVL7Vf4q4"></iframe></div><br /></div><div><span style="font-family: arial;"><div style="text-align: justify;"><b style="font-size: large;">6. Analisis</b><span style="font-size: large;"></span><a name="video" style="font-size: large;"></a><span style="font-size: large;"></span><a href="#home" style="font-size: large;">[Kembali]</a></div></span></div><div style="text-align: justify;"><span style="font-family: arial;"><br /></span></div><div><span style="font-family: arial;"><div style="text-align: justify;">1. Analisalah output yang dihasilkan pada percobaan berdasarkan 1 berdasarkan masing-masing flip-flop?</div><div style="text-align: justify;">Jawab:</div><div style="text-align: justify;">Pada percobaan 1 ini, menggunakan 4 buah JK flip-flop dimana ini merupakan rangkaian Asynchronous Binary yang output masing-masing flip-flop yang digunakan akan berguling akibat hanya flip-flop yang paling ujung saja yang dikendalikan oleh sinyal clock (JK Flip Flop yang pertama) sedangkan untuk clock JK Flip Flop yang kedua sampai keempat berasal dari output Q JK flip flop sebelumnya. Setiap JK flip flop membentuk rangkaian T flip flop berlogika 1 sehingga outputnya bersifat toggle. Sedangkan untuk clock fall time. Saat clock fall time maka output JK Flip flop awalnya 0 akan mengalami perubahan kenaikan menjadi 1, dan flip flop kedua tidak mengalami perubahan karena dalam kondisi rise time dimana outputnya berlogika 0 begitupun untuk kedua dan ketiga sehingga didapatkan 0001 dengan bilangan desimal 1. Pada timing diagram terjadi delay time pada setiap perubahan output. H0 akan berubah saat fall time clock pertama, H1 berubah saat kelipatan fall time H0 (clk 2) H2 berubah saat fall time clock keempat, dan H3 berubah saat fall time clock ke 8 sehingga terjadi kenaikan pencacah nilai biner 4 bit dari 0000 sampai 1111 lalu kembali ke 0000 dimana didapatkan desimalnya dari 0 sampai 15 dan kembali ke 0 dan seterusnya.</div><div style="text-align: justify;"><br /></div><div style="text-align: justify;">2. Jelaskan kenapa flip-flop terakhir disebut dengan MSB?</div><div style="text-align: justify;">Jawab:</div><div style="text-align: justify;">Karena flip-flop terakhir atau H3 memiliki nilai terbesar, dimana saat perubahan dari 0 dan 1 besar. H3 berubah saat fall time clock ke 8 yaitu dari 10000 saat didesimalkan nilainya besar yaitu 8 dan 0000 saat didesimalkan nilainya 0, dibandingkan dengan 0001 dan 0000 itu bedanya cuma 1 dan 0, lebih jauh perubahan yang 1000, karena perubahan yang besar itulah kenapa flip-flop terakhir atau H3 disebut MSB.</div></span></div><div><div style="text-align: justify;"><br /></div></div><div style="text-align: justify;"><span style="font-family: arial;"><span><span style="font-size: medium;"><b>7. Download</b></span><a name="prinsip"></a><a href="#home">[Kembali]</a></span></span><br /></span></div></div><div><span style="font-family: arial;"><br /></span></div><div><span style="font-family: arial;"><div>Download HTML [klik]</div><div>Download video rangkaian [<a href="https://drive.google.com/uc?export=download&id=1LKu5HAouKfxMTRFdjR4DiH8esdMcWMEZ">klik</a>]</div><div>Download file rangkaian [<a href="https://drive.google.com/uc?export=download&id=1-XZnnjB0aWw3aCrvFqWxL0uOBYDyIOuB">klik</a>]</div><div>Download datasheet 74LS112 [<a href="https://drive.google.com/uc?export=download&id=1SeGEbFYc5hOFF25VTxXFV DX8Pr\_gXZLZ">klik</a>]&nbsp;</div></div><div><br /></div></span></div>