

kontrol Ladang Sawi

1.

2. Alat dan bahan

3. Dasar

4.

5. Gambar

6. Prinsip Kerja

7. Video

8. Link

1.

[back]

a. Mengetahui rangkaian simulasi Kontrol Ladang Sawi dengan

proteus

a. Mengetahui rangkaian simulasi

menggunakan Soil moisture sensor, LDR sensor, touch sensor, water sensor, dan sound sensor

dengan proteus

c.

Memenuhi tugas besar mata kuliah sistem digital

2. Alat dan Bahan

[back]

1. Voltmeter DC

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margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div></div><div><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #222222; text-align: center;"><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both;"><br /></div></div></span></div></div></div></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">2. Touch sensor</span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><br /></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #222222; text-align: center;"><br /></div><div class="separator" style="clear: both; color: #4e4e4e; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjAGbB9oIhfDwUT\_b90GgxzZ5KxoLmaZneirmkCqKGIlywvKZT\_j1gVIZLMuUDuJed1Uju\_KKtlVbZOo6GBgNmcZ2wV\_jCjnNHPlG8GGcNn81XeI9fd7nh-juoJ0XoncdG4SnZJQa0ulhunS0yqo72NHxcfbelAJvVPJbAi7Hma00KUCCZipUrfNVECw/s252/download%20(6).jpeg" style="color: #258acd; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><p  
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text-decoration-line: none;"></div></div></div><div style="--tw-border-spacing-x: 0;
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--tw-translate-x: 0; --tw-translate-y: 0; color: #4e4e4e; text-align: center;"><span
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</div><div style="color: black; text-align: left;"><div class="separator" style="clear:
both; text-align: center;">
</div></div></div></div><div style="background-color:
white; color: #666666; text-align: justify;"><div class="separator"
style="clear: both;"><div style="text-align: justify;"><div class="separator" style="clear: both;
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Op-Amp</span></p></div></div></span></div></div></div></span></div></div></div></div><h3="" style="margin: 0px; position: relative;"><span style="font-family: times;"><p style="clear: both; color: #222222; font-weight: 400;"><span style="color: #545454; text-align: justify;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;

&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;</span><a href="https://1.bp.blogspot.com/-8C5o4fcsIbY/X4U2PLmRCLI/AAAAAAAAARg/bAFTQtCFUWo

0KFAan9OkjTfbH0dKTrkvwCLcBGAsYHQ/s320/Pengertian-Op-Amp-Operational-Amplifier-danKarakteristiknya.jpg" style="color: #959595; margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line: none;"></a></p><div style="clear: both; font-weight: 400; text-align: left;"><br /></div><div><div style="text-align: justify;"><span style="font-weight: normal;"><span style="color: #555555;">10.&nbsp;</span>Dioda</span></div><p class="MsoNormal" style="text-align: justify;"></p><div class="separator" style="clear: both;"><span style="color: #b87209; margin-left: 1em; margin-right: 1em;"><a href="https://1.bp.blogspot.com/-Yd1otNHkwhc/X8xXLF9DrgI/AAAAAAAAAWk/ifVZck-IFsQKoG

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both;"></div></div></li></ul><li><div class="separator" style="clear: both; display: inline;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEghJtKK6RM8WlMvYfdA5-I2

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Seven Segment</span></div><div><span style="font-family: times; font-size: small;">&nbsp;</span><div class="separator" style="clear: both;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiywhHFeGWOudXekz1qh

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YX02LFJoqM88jN5GFpMOBQIDLgcvM5X6iWZJU1zC9E9sOUpQzsE34W6B2IbNf0OFNSm4my

-LMSjElToaNMFylxdtNfz\_5/s352/th.jpg" style="margin-left: 1em; margin-right: 1em;"><span style="font-family: times; font-size: small;"></span></a></div><p><br /></p><p style="font-weight: 400;"><span style="font-family: times; font-size: small;"><span style="color: #666666;">13.&nbsp;</span><span style="color: #666666;">IC74LS139</span></span></p><div class="separator" style="clear: both; color: #666666; font-weight: 400; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgUYH4tLo25hBh4DWuBe QH4LLUZcDPIbAbkMnCNkOmeD7AGLm7niHu1ABE5IXnyY-Xhx7IIQ-m2GxsUhHhRGcY5yMk OXRFIHaTOBz2RaiG4lOqRqZQzICCvIZ7-5OJWjIJDoqAVPiCf\_cnV2sKmoPrq6yDjRiFMryUND JT\_C94ks9JCOzg6OBfwl0pb/s174/th%20(1).jpg" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><span style="font-family: times; font-size: small;"></span></a></div><div class="separator" style="clear: both; color: #666666; font-weight: 400; text-align: center;"><span style="font-family: times; font-size: small; text-align: left;"><br /></span></div><div class="separator" style="clear: both; color: #666666; font-weight: 400; text-align: justify;"><span style="font-family: times; font-size: small; text-align: left;">&nbsp;&nbsp;&nbsp;</span></div><div class="separator" style="clear: both; color: #666666; font-weight: 400; text-align: justify;"><br /></div></div><h3></h3><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="color: #666666; line-height: 1.4; position: relative; width: 570px;"><h3 style="color: #222222; margin: 0px; position: relative;"><p class="MsoNormal" style="font-weight: 400; line-height: normal; margin-bottom: 0cm;"><span style="font-family: times; font-size: small;"><br /></span></p></h3></div><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="color: #666666; line-height: 1.4; position: relative; width: 570px;"><span><span style="font-family: times;"><b>3.&nbsp;</b><span id="teori"></span>Dasar Teori</b>&nbsp;<b style="color: #b87209;"><a href="#daftarisi" style="color: #b87209; text-decoration-line: none;">[back]</a></b></span></span></div><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="color: #666666; line-height: 1.4; position: relative; width: 570px;"><span style="font-family: times;"><span><span>&nbsp;&nbsp;</span></span></span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;



font-size: 13.2px; text-align: center;"></div><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #222222; font-size: 13.2px; text-align: center;"></div><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; text-align: center;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="font-family: times;"><div class="separator" style="clear: both; color: #222222;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEg1M4gkEsfuqnNEvZ5o4OP6X8WiMWVWgm7lvWgRGRistPyofbbHTLe1D-0mmK4z7s7CpHf1tf0wzYUyqtapiQCu63nFNRIWp0Z7SM5r0aPeNNYXvAsliSXM8qHTIUBo4tDPYc1S9Ib5rfql3s98DFN3LFqJ2HEkmTsKSXtLNSdeXTe3fgjtphlArvNeA" style="color: #258acd; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div></span></span></div><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; clear: both; color: #222222; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-size: 13.2px; text-align: center;"><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: black; font-family: Vollkorn; text-align: justify;"><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1;">



background-repeat: repeat; background-size: initial; line-height: normal; margin-bottom: 0cm;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><br style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;" /></span></p><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; text-align: center;"><div class="separator" style="clear: both;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEgFrhY5bj\_Wd25fgkjW6JbqIVW4tK8Gqy4e99tEcgaHL2jI148i-4lLybqoMtK2Ptq8s4KZSfOkEnOevhKoQhrihWLOuxXwoUg1E7xAYDgtMLbgGr4uk9GzJ4GtGmYiW-3aVYjrjC5Fk7A\_7UU1Vdz76190us6wKtCO2SJoLn\_33eIHawRxb6qpuDgxE" style="color: #258acd; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><br /><br /></div><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;">Jika menggunakan pin Digital Output maka keluaran hanya bernilai 1 atau 0 dan harus inialisasi port digital sebagai Input (pinMode(pin, INPUT)). Sedangkan jika menggunakan pin Analog Output maka keluaran yang akan muncul adalah sebuah angka diantara 0 sampai 1023 dan inialisasi hanya perlu menggunakan



analogRead(pin).<o:p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"></o:p></span></span></p><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; text-align: start;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial;">CARA KERJA SENSOR</span><br style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;" /><br style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;" /><span class="notranslate" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial;">Pada saat diberikan catudaya dan disensingkan pada tanah, maka nilai Output Analog akan berubah sesuai dengan kondisi kadar air dalam tanah.</span></span></span></p><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity;

--tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; line-height: normal; margin-bottom: 0cm; text-align: start;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial;">Pada saat kondisi tanah </span><br style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;" /><o:p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"></o:p></span></p><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial; line-height: normal; margin: 3.75pt 0cm; text-indent: 0cm;"></p><ul style="line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em;"><li style="margin: 0px 0px 0.25em; padding: 0px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;">Basah &nbsp;tegangannya output akan turun</span></li><li style="margin: 0px 0px 0.25em; padding: 0px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;">Kering &nbsp;tegangannya output akan naik</span></li></ul><p></p><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity;

--tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial; line-height: normal; margin-bottom: 0cm;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;">Tegangan tersebut dapat dicek menggunakan voltmeter DC.&nbsp;Dengan pembacaan pada pin ADC pada microcontroller dengan tingkat ketelitian 10 bit, maka akan terbaca nilai dari range 0 – 1023.&nbsp;Sedangkan untuk&nbsp;Output Digital&nbsp;dapat dilihat pada nyala led Digital output menyala atau tidak dengan mensetting nilai ambang pada potensiometer.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"></p><p class="MsoNormal" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-attachment: scroll; background-clip: initial; background-image: none; background-origin: initial; background-position: 0% 0%; background-repeat: repeat; background-size: initial; line-height: normal; margin: 3.75pt 0cm; text-indent: 0cm;"><ul style="line-height: 1.4; margin: 0.5em 0px; padding: 0px 2.5em;"><li style="margin: 0px 0px 0.25em; padding: 0px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; line-height: normal;">&nbsp;</span>Kelembaban tanah melebihi dari nilai ambang maka led akan padam</span></li><li style="margin: 0px 0px 0.25em; padding: 0px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"></span></li></ul></p></div>

--tw-translate-x: 0; --tw-translate-y: 0; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; line-height: normal;">&nbsp;

Kelembaban tanah kurang dari nilai ambang maka led akan menyala

Pinout

--tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #222222; text-align: center;"><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; font-family: Georgia, Utopia, &quot;Palatino Linotype&quot;, Palatino, serif;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEiEc1u36Z13itjC\_sK59i4bWAX7sZbvcNxbKQYVlDeGyXwltXULp-wkI70FgiMcMp05etLMvC5cMpOSeXBpNo2AC4QyyJS0oPNqxF1g2Gzp2oCRhkhNAS6nPMFGuxHWYyMLJoPnE7gmrAWcG-nSRogzo0wYu1UuccYkZTtkDn6tARRDBsEgmxJTS-1BdY" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #7b1fa2; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"></span></a></div><div style="text-align: left;"><br /></div><div style="text-align: left;">Grafik Respon:&nbsp;</div><div style="text-align: left;"><div class="separator" style="clear: both; text-align: center;"><br /></div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhGfiTkJe6y0mxqT4z8pTBycvqRnpMDMxLk3gpChe5x6UvAQoQRE1kmYewzSV9u7hBSKaeZAaaloZ2B2DcDb9NOrrEZA36KqkQkbuihKNgk\_WMgczlLJ2uEfE-LSRbKpvq0\_c8ljkMa7lgjYFP6SnQe5gcCd7XqETRFKE\_dz7NuFEWth2PIS5jNugTbm g/s850/Soil-moisture-vs-sensor-values.png" style="color: #3fa2ff; margin-left: 1em; margin-right: 1em;"></a></div></div></div></span></div></div></div></div><div style="color: #666666;"><h3 style="color: #222222; margin: 0px; position: relative;"><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description

articleBody" style="color: #666666; line-height: 1.4; position: relative; text-align: justify; width: 570px;"><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"><div style="text-align: start;"><div class="separator" style="clear: both; color: #222222; text-align: justify;"><div><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description

articleBody" style="line-height: 1.4; position: relative; width: 570px;"><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="font-weight: 700; line-height: 1.4; position: relative; text-align: start; width: 570px;"><span style="font-family: times; font-size: small;"><span style="color: #333333; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"><br /></div><div class="separator" style="clear: both; text-align: left;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #0b5394; font-weight: 400;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">2.&nbsp;&nbsp;&nbsp;</span></span><span style="background-color: white; color: #0b5394; font-weight: 400;">Touch Sensor</span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: black; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-weight: 400; text-align: left;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="color: #134f5c; font-family: times;"><span style="color: black; font-family: Georgia, Utopia, &quot;Palatino Linotype&quot;, Palatino, serif; font-size: 15.4px;">Touch Sensor atau Sensor Sentuh adalah sensor elektronik yang dapat mendeteksi sentuhan</span></span></span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #222222; font-family:

&quot;Times New Roman&quot;; Times, FreeSerif, serif; font-weight: 400; text-align: center;"><br /></div><div class="separator" style="background-color: white; clear: both; color: #4e4e4e; font-family: &quot;Times New Roman&quot;; Times, FreeSerif, serif; font-size: 13.2px; font-weight: 400; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjAGbB9oIhfDwUT\_b90GgxzZ5KxoLmaZneirmkCqKGIIYwvKZT\_j1gVIZLMuUDuJed1Uju\_KKtIVbZOo6GBgNmc2ZwV\_jCjnNHpIG8GGcNn81Xel9fd7nh-jluoJ0XoncdG4SnZJQa0ulhunS0yqo72NHxcfbelAJvVPJbAi7Hma00KUCCZipUrfNVECw/s252/download%20(6).jpeg" style="color: #258acd; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><br style="background-color: white; color: #4e4e4e; font-family: &quot;Times New Roman&quot;; Times, FreeSerif, serif; font-size: 13.2px; font-weight: 400; text-align: left;" /><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;; Times, FreeSerif, serif; font-size: 13.2px; font-weight: 400; text-align: left;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-size: medium;"><span style="font-family: times;"><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: black; font-family: Georgia, Utopia, &quot;Palatino Linotype&quot;; Palatino, serif; font-size: 15.4px; text-align: center;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness:

proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; text-align: left;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #222222;">Pinout:&nbsp;</span></div></span></span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: black; font-family: Georgia, Utopia, &quot;Palatino Linotype&quot;, Palatino, serif; font-size: 15.4px; text-align: center;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #222222; font-size: medium;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjUzem-ggiBB208t\_4wEH3hpS\_-IAjkkfFD2A-1H-m0Skr9L4n1pVNOHk4jtSFuXHICkzlnSRy9l-HirIP4hPpZkFpFnPAa26yvepuC4SO1\_IO7MwRZP0DLk358dUk805B5aWjLQ\_ievaxvAGik4vMAG0KspxLYw\_W0uz9G5xeTriXWOjlvh4hrjNn8kw" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #7b1fa2; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><img alt="" data-original-height="169" data-original-width="299" height="181" src="https://blogger.googleusercontent.com/img/a/AVvXsEjUzem-ggiBB208t\_4wEH3hpS\_-IAjkkfFD2A-1H-m0Skr9L4n1pVNOHk4jtSFuXHICkzlnSRy9l-HirIP4hPpZkFpFnPAa26yvepuC4SO1\_IO7MwRZP0DLk358dUk805B5aWjLQ\_ievaxvAGik4vMAG0KspxLYw\_W0uz9G5xeTriXWOjlvh4hrjNn8kw" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; 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(235, 235, 235); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; padding: 5px; position: relative;" width="320"

</a></div></span></span></div></span></span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-size: 13.2px; font-weight: 400; text-align: center;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="font-family: times;"><div class="separator" style="clear: both; color: #222222; font-size: medium;"><br /></div><div style="text-align: left;">Grafik respon:</div></span></span></div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEhEqAHu2mxn1NRicu7WfOHIIIR-8ZjCOEunF5wq\_RuuKY0rK1DqtOnpnwgs6hM1eFYk-EVnRjHJG\_hScLv3vAUB9Z9fSlpyrcwcm5K8SWNmo-LOHb\_yQayi7AjeL5VjqLD\_31KihhhpIFXHCQp9NUnqlHNYKJ7cEVvSmYLipWESGqOvW81bn1NIHEQuDKdg" style="background-color: white; color: #3fa2ff; font-weight: 400; margin-left: 1em; margin-right: 1em;"></a></div></span></span></div></div><div style="font-weight: 700;"><br /></div><div style="font-weight: 700;"><div class="separator" style="background-color: white; clear: both; font-family: arial; font-size: small; font-weight: 400;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #0b5394; font-family: times; font-size: medium; text-align: left;">3.&nbsp;&nbsp;&nbsp;</span><span style="color: #0b5394; font-family: times; font-size: medium; text-align: left;">Sound Sensor</span></div><div class="separator" style="background-color: white; clear: both; font-weight: 400;"><span style="color: #333333; white-space-collapse: preserve;"><span style="font-family: times; font-size: small;">Berfungsi untuk mendeteksi suara dan juga dapat mengubah sinyal suara menjadi sinyal elektrik sehingga dapat diproses untuk penggunaan selanjutnya.</span></span><span style="color: #333333; font-family: times; font-size: medium; white-space-collapse: preserve;">&nbsp;&nbsp;&nbsp;</span></div><div class="separator" style="background-color: white; clear: both; font-weight: 400;"><span style="color: #333333; white-space-collapse: preserve;"><span style="font-family: times; font-size: small;">Modul Sensor Suara FC-04 yang dapat mendeteksi intensitas suara sekeliling,

mengidentifikasi keberadaan atau ketidakberadaan suara (berdasarkan prinsip getaran



sekitar.</span></p><p style="color: #333333;"><span color="rgba(0, 0, 0, 0.8)" face="Roboto, &quot;Helvetica Neue&quot;, Helvetica, Arial, 文泉驛正黑, &quot;WenQuanYi Zen Hei&quot;, &quot;Hiragino Sans GB&quot;, &quot;儷黑 Pro&quot;, &quot;LiHei Pro&quot;, &quot;Heiti TC&quot;, 微軟正黑體, &quot;Microsoft JhengHei UI&quot;, &quot;Microsoft JhengHei&quot;, sans-serif" style="white-space-collapse: preserve;">4. Digital output DO pada modul dapat difungsikan

langsung sebagai saklar yang diaktifasi oleh suara (voice-activated

switch)</span></p><p></p><div class="separator" style="clear: both; color: #333333; text-align: center;"><a href="https://1.bp.blogspot.com/-9yhU-giW1q8/X8xoUzvHPZI/AAAAAAAAAXI/Tiy8Ju\_Wu\_Uwq4hef0n0p77lxp1u-69TwCLcBGAsYHQ/s293/grafik%2Bsound.jpg" style="color: #b87209; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div style="color: #6699cc; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-align: center;"><br /></div><div style="color: #6699cc; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-align: center;"><a href="https://1.bp.blogspot.com/-KGrx\_D-1zjc/X4ax63I9D3I/AAAAAAAAAeo/Bxoeb0IUdawc31t6gf4IK\_JAJ79u9aHHACLcBGAsYHQ/s272/menentukan-lc\_1.jpg" style="color: #6699cc; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; line-height: normal; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div style="font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-align: center;"><br /></div><div style="font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-align: center;"><br /></div><div style="font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-align: left;">Tabel Jenis bunyi dan Kekerasan Bunyi</div><div class="separator" style="clear: both; color: #333333; text-align: center;"><span style="margin-left: 1em; margin-right: 1em;"><a href="https://1.bp.blogspot.com/-1mIYFc4wGSQ/X8xqH0qPYal/AAAAAAAAAXc/vqkyq-h0TNY7bt9oxYvzDhGYXuG-Ucr4QCLcBGAsYHQ/s742/tabel%2Bsound.jpg" style="color: #b87209; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><img border="0" data-original-height="322"



margin-right: 1em; text-decoration-line: none;"><span style="font-family: arial; font-size: small;"></span></a></div><div><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #0b5394; font-family: times; font-size: medium; font-weight: 400;">5.&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span><span style="color: #0b5394; font-family: times; font-size: medium; font-weight: 400;">Water Sensor</span></div></div></div><div style="font-weight: 700;"><div style="background-color: white; color: #333333; font-family: arial; font-size: small; font-weight: 400; text-align: left; white-space-collapse: preserve;">Water sensor adalah <span style="color: #111111; text-align: justify;">controller yang bisa mendeteksi volume air, tinggi air, serta kualitas air di

dalam tangki, sungai, danau, dan sejenisnya dengan akurat dan mudah. Sensor ini merupakan

</span><span style="color: #111111; text-align: justify;">perangkat yang bisa mematikan atau mengobarkan pompa air secara otomatis andai air mulai berakhir atau sudah nyaris

penuh.</span></div><div style="background-color: white; color: #666666; font-family: arial; font-size: small; font-weight: 400; text-align: left;"><div class="separator" style="clear: both; color: #333333; text-align: center; white-space-collapse: preserve;"><div class="separator" style="clear: both; text-align: left;"><a

href="https://1.bp.blogspot.com/-T0UwoQKb10w/X9XFmt7LthI/AAAAAAAAAel/pu3yrDeKSPgp3N61Kat9ijfnqEK3wNyJwCLcBGAsYHQ/s649/sysmlsim\_example\_twotanks\_real.png" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a><a

href="https://1.bp.blogspot.com/-4uSjRXB3MzQ/X9XF2rfJuAl/AAAAAAAAAeQ/EsilkbXUzhkQkAVJw2zEg\_xX4RE-xV37wCLcBGAsYHQ/s537/Water-Sensor-Library-For-Proteus-5.png" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><br /><div style="text-align: center;"><b>Tabel water temperature sensor</b></div><div style="text-align: center;"><div class="separator" style="clear: both;"><a











Elektromagnetik untuk menggerakkan Kontak Saklar sehingga dengan arus listrik yang kecil

(  
font-variant-east-asian: inherit; font-variant-numeric: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;")low power  
dapat menghantarkan listrik yang bertegangan lebih tinggi. Sebagai contoh, dengan

Relay yang menggunakan Elektromagnet 5V dan 50 mA mampu menggerakkan Armature Relay

(yang berfungsi sebagai saklarnya) untuk menghantarkan listrik 220V

2A.  
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id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"/>  
id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"/>  
id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"/>  
<a href="https://1.bp.blogspot.com/-mPMe5aeC66M/X9HoBzV8C1I/AAAAAAAAAaA/l1-sKcM0MNg

AOfuFH7A5007gZjAOYy0zACLcBGAsYHQ/s1496/rumus%2Brelay.png" style="color: black; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"/>  
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AOfuFH7A5007gZjAOYy0zACLcBGAsYHQ/s320/rumus%2Brelay.png" style="border: none; position: relative; width="320" /></span></a></div><div class="separator" style="clear: both; text-align: center;"/>  
<span style="font-family: times; font-size: small;"/>  
</span></div><div class="separator" style="clear: both; text-align: center;"/>  
<span style="font-family: times; font-size: small;"/>  
>Grafik</span></div><div class="separator" style="clear: both; text-align: center;"/>  
<span style="color: black; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; font-weight: bold; line-height: normal; margin-left: 1em; margin-right: 1em;"/>  
><a href="https://1.bp.blogspot.com/-TDkWnBYGiWk/X9HookDGpul/AAAAAAAAAaA/e1fdJo43Rnsb

kDuN9DqCM2-UZ6b95CatgCLcBGAsYHQ/s312/grafik%2Brelay.jpg" style="color: black; font-stretch: normal; font-variant-east-asian: normal; font-variant-numeric: normal; line-height: normal; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"/>  
<span style="font-family: times; font-size: small;"/>  
></span></a></span></div></div></div></h3><h3 style="color: #222222; margin: 0px; position: relative;"/>  
><div class="post-body entry-content" itemprop="description articleBody" style="color: #666666; font-weight: 400; line-height: 1.4; position: relative; text-align: justify; width: 570px;"/>  
><div class="post-body entry-content" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"/>  
><div style="font-weight: 700; text-align: start;"/>  
><div class="separator" style="clear: both; color: #222222; text-align: justify;"/>  
></div></div></div><div class="separator" style="clear: both; color: #222222; text-align: center;"/>  
><span style="font-family: times; font-size: small;"/>  
><br /></span></div></div></div></div></h3><h3 style="color: #222222; margin: 0px; position:







inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;"><span style="font-family: times; font-size: small;">Sebagai Pengatur Tegangan pada Rangkaian

Power Supply</span></li><li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;"><span style="font-family: times; font-size: small;">Sebagai Pembagi

Tegangan</span></li><li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;"><span style="font-family: times; font-size: small;">Aplikasi Switch

TRIAC</span></li><li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;"><span style="font-family: times; font-size: small;">Digunakan sebagai Joystick

pada Transducer</span></li><li style="border: 0px; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; vertical-align: baseline;"><span style="font-family: times; font-size: small;">Sebagai

Pengendali Level Sinyal</span></li></ol><div style="color: #666666; font-weight: 400; text-align: left;"><div class="separator" style="clear: both; text-align: center;"><a

href="https://1.bp.blogspot.com/-sU3Pli8aL4s/X9XNw1jgaJI/AAAAAAAAAFM/pDZC2omlctAtrzHiUZ8iM3HlowZ61RqVQCLcBGAsYHQ/s320/Logaritmis.png" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"><span style="font-family: times; font-size: small;"></span></a></div><div class="separator" style="clear: both; text-align: center;"><span style="font-family: times; font-size: small;"><br /></span></div><div class="separator" style="clear: both; text-align: center;"><span style="font-family: times; font-size: small;"><br /></span></div></div></div></div></div></div></div></div><h3><h3 style="color: #222222; margin: 0px; position: relative;"><span style="color: #0b5394; font-family: times; font-size: medium; font-weight: 400;">9. IC 74247</span></h3><h3 style="color: #222222; margin: 0px; position: relative;"><div class="post-body entry-content" itemprop="description articleBody" style="color: #666666; font-weight: 400; line-height: 1.4; position: relative; text-align: justify; width: 570px;"><div class="post-body entry-content" itemprop="description articleBody" style="line-height: 1.4; position: relative; width: 570px;"><div style="font-weight: 700; text-align: start;"><div class="separator" style="clear: both; color: #222222; text-align: justify;"><div style="color: #666666; font-weight: 400; text-align: left;"><div class="separator" style="clear: both; text-align: justify;"><div class="separator" style="clear: both; color: #444444; text-align: center;"><div class="separator" style="clear: both; color: #505050; text-align: left;"><div class="separator" style="clear: both; text-align: center;"><div style="color: #666666; text-align: justify;"><div class="separator" style="clear: both; text-align: left;"><span color="rgba(0, 0, 0, 0.8)"><span style="font-family: times; font-size: small;"><div style="color: #333333; text-align: justify; white-space: pre-wrap;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both; text-align: center;"><div style="color: #666666; text-align: left; white-space: normal;"><div style="text-align: center;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both; text-align: justify;"><div class="separator" style="clear: both; color: #333333; text-align: left;"></div><div

class="separator" style="clear: both; color: #333333; text-align: center;"/>

[Um65GzRsf9a9s9goIFDIwgW\\_GIFHvRTMFeuNNyScl\\_xYH0\\_e8TKdyVQ-wnKUu\\_sYQBxaASc](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgLiYrMbGVIU4dk8kPBurA</a></p></div></div><div data-bbox=)

A7thPcDJ0odIn950s8echR0YREhImILT3oaG6fqg0HmaG47IhI6b\_zxm60LmbFx57ftvTCKIHpIMf

hTeM7qb5OSgf2I7Dt/s444/Screenshot%202022-07-12%20021002.jpg" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-align: center; text-decoration-line: none;"/>

Um65GzRsf9a9s9goIFDIwgW\_GIFHvRTMFeuNNyScl\_xYH0\_e8TKdyVQ-wnKUu\_sYQBxaASc

A7thPcDJ0odIn950s8echR0YREhImILT3oaG6fqg0HmaG47IhI6b\_zxm60LmbFx57ftvTCKIHpIMf

hTeM7qb5OSgf2I7Dt/w423-h260/Screenshot%202022-07-12%20021002.jpg" style="border: none; position: relative;" width="423" /></a></div><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="color: #666666; line-height: 1.4; position: relative; text-align: left; width: 570px;"/>

>IC

7447, merupakan IC TTL&nbsp; Decoder BCD to 7 Segment. IC ini berfungsi untuk mengubah kode bilangan biner BCD (Binary Coded Decimal) menjadi data tampilan untuk penampil/display

7 segment&nbsp; yang bekerja pada tegangan TTL (+5 volt DC).</p><ul style="border: 0px; box-sizing: border-box; color: #2b2b2b; line-height: 1.4; list-style-image: initial; list-style-position: initial; margin: 0px 0px 24px 20px; outline: 0px; padding: 0px; vertical-align: baseline;"/>- >Jalur input data BCD, pin input ini terdiri dari 4 line input yang

mewakili 4 bit data BCD dengan sebutan jalur input A, B, C dan D.</li><li style="border: 0px; font-style: inherit; font-weight: inherit; margin: 0px; outline: 0px; padding: 0px; vertical-align: baseline;">>Jalur output 7 segmen, pin output ini berfungsi untuk&nbsp; mendistribusikan data

pengkodean ke penampil 7 segmen. Pin output dekoder BCD ke 7 segmen ini ada 7 pin yang

masing-masing diberi nama a, b, c, d, e, f dan g.</li><li style="border: 0px; font-style: inherit; font-weight: inherit; margin: 0px; outline: 0px; padding: 0px; vertical-align: baseline;">>Jalur LT

(Lamp Test) yang berfungsi untuk menyalakan semua led pada penampil 7 segmen, jalur LT

akan aktif pad saat diberikan logika LOW pad jalur LT tersebut.</li><li style="border: 0px; font-style: inherit; font-weight: inherit; margin: 0px; outline: 0px; padding: 0px; vertical-align: baseline;">>Jalur RBI (Riple Blanking Input) yang berfungsi untuk menahan sinyal input (disable

input), jalur RBI akan aktif bila diberikan logika LOW.</li><li style="border: 0px; font-style: inherit; font-weight: inherit; margin: 0px; outline: 0px; padding: 0px; vertical-align: baseline;">>Jalur RBO (Riple blanking Output) yang berfungsi untuk menahan data output ke

penampil 7 segmen (disable output), jalur RBO ini akan aktif pada sat diberikan logika





class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; text-align: justify; width: 570px;"><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEi8gdKq6oSJBXY1blUhCNJN-LE9DD8vGMa94cAiKa6aqM1r7Hk\_cHOq6kBKx8zatxi3UmtSvytmrqlCCTSaPVpINMei967vCHLDN6XlLtBfJX6g4o2QHU0DEkm97lm5gldmCDuXfEGWSzbbZuOYqRatzN-vDBu3MP0tGzAvZ5PvnVOzSKu4wNit74a/s165/Screenshot%202022-07-12%20020901.jpg" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEigUYx7UKqDaUCUI-2BkdW\_iEEVUO05AnwwMkfkxS2PDyrfmKeZHjCuuUKfm1aewVTJUdAA0TOSEpm6pCD3J0mgKcx9b\_F7eGujhNwS8xn8AXulfU5L0nHHgAKkEP2sQ71aAtAGOB17q9pv\_Wn5hbjmDirWtUA07WIXWJmAeVjCX8mjHoLcF8SAExgo/s439/Screenshot%202022-07-12%20020918.jpg" style="color: #ff9900; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div></div><span style="color: #545454;"><b><br /></b></span></div><div class="post-body entry-content" id="post-body-3365351639040592593" itemprop="description articleBody" style="line-height: 1.4; position: relative; text-align: justify; width: 570px;"><p class="MsoNormal" style="color: #666666; margin: 0cm 52.45pt 1.55pt 50.1pt; text-indent: 36pt;">Piranti tampilan modern

disusun sebagai pola 7-segmen atau dot matriks. Jenis 7segmen, sebagaimana namanya, menggunakan pola tujuh batang yang disusun membentuk angka 8 seperti ditunjukkan pada gambar 3.1. Menurut kesepakatan, huruf-huruf yang diperlihatkan dalam Gambar 3.1 ditetapkan untuk menandai segmen-segmen tersebut. Dengan menyalakan beberapa segmen yang sesuai akan dapat diperagakan digit-digit dari 0 sampai 9, &nbsp; juga bentuk huruf A sampai F (heksadesimal).

<o:p></o:p></p><p class="MsoNormal" style="color: #666666; margin: 0cm 52.45pt 1.55pt 50.1pt; text-indent: 36pt;">Sinyal input dari switches tidak dapat langsung

dikirimkan ke peraga 7segmen, sehingga harus menggunakan decoder BCD ke 7-segmen sebagai antar muka. Decoder ini terdiri dari gerbang-gerbang logika yang masukannya berupa digit BCD dan keluarannya berupa saluran-saluran untuk mengemudikan tampilan

7-segmen.

7-segmen.

11. IC 74LS83







mempunyai waktu tunda propagasi yang sangat singkat. Dalam sistem memori berkinerja tinggi, dekoder ini dapat digunakan untuk meminimalkan efek dekode sistem. Ketika digunakan dengan memori berkecepatan tinggi yang menggunakan sirkuit pengaktifan cepat, waktu tunda dari dekoder ini dan waktu pengaktifan memori biasanya lebih kecil daripada waktu akses memori biasa. Ini berarti bahwa penundaan sistem efektif yang diperkenalkan oleh dekoder

sistem yang dijepit Schottky dapat diabaikan.

&nbsp;Semua decoder/demultiplexer ini memiliki input buffer penuh, yang masing-masing hanya mewakili satu beban yang dinormalisasi ke sirkuit penggerakannya. Semua input dijepit

dengan dioda Schottky berperforma tinggi untuk menekan line-ringing dan untuk menyederhanakan desain sistem. SN54LS139A dan SN54S139A dicirikan untuk rentang operasi

-55°C hingga 125°C. SN74LS139A dan SN74S139A dicirikan untuk pengoperasian dari 0 °C

hingga 70 °C

--tw-translate-x: 0; --tw-translate-y: 0; font-size: medium;"><span style="font-family: &quot;Times New Roman&quot;, serif; font-size: 16px; text-align: justify; text-indent: 48px;">LED merupakan keluarga dari Dioda yang terbuat dari Semikonduktor. Cara kerjanya pun hampir sama dengan Dioda yang memiliki dua kutub yaitu kutub Positif (P) dan Kutub Negatif (N). LED hanya akan memancarkan cahaya apabila dialiri tegangan maju (bias forward) dari Anoda menuju ke Katoda.</span></span></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-size: 13.2px; text-align: center;"><a href="https://1.bp.blogspot.com/-O2-YP03FEeM/YBDFMHGkSVI/AAAAAAAAAB8M/y\_ZUwWWEMfk\_CIMkg-I0NSkyEdID5jMkwCLcBGAsYHQ/s320/lead.jpg" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; color: #cc6611; font-family: times; font-size: medium; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></a></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-size: 13.2px; text-align: center;"><br /></div><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;, Times, FreeSerif, serif; font-size: 13.2px;"><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: whitesmoke; color: black; font-family:

times; font-size: 16.94px; text-align: justify;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: transparent; color: #424242; text-align: left;">Pinout:<br style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;" /></span><b style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"></span></b></div><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: transparent; color: #424242; text-align: left;"></p><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #424242; font-family: times; font-size: 16.94px;"><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; text-align: justify;"></p><div class="separator" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjuipsTd9bVhJxeg9B91why7bOpO3eEYVZ5Eoqm7JRADwvnYzB-25G7hhjn7603Yjp16fB1CTKT2CCbPKInke34hk28YnZZoTI5kJWAZgSrcM5unYF\_SaBkMGh9eotMxsAMDXLgvYeNPwBFxhbAPsQnKU1xeYWpvuHyl8TsckditOELoSub4QPe6rT/s707/WhatsApp%20Image%202022-07-06%20at%2000.53.39.jpeg" style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000;



--tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity;  
--tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;  
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text-decoration-line: none;"></a></div><br  
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);  
--tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px;  
--tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness:  
proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;  
--tw-translate-x: 0; --tw-translate-y: 0;" /><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y:  
0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0  
#0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1;  
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0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; text-align: justify;"><b  
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);  
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--tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness:  
proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;  
--tw-translate-x: 0; --tw-translate-y: 0;"><u style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0;  
--tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000;  
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1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000;  
--tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><div class="separator"  
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);  
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--tw-translate-x: 0; --tw-translate-y: 0; clear: both; text-align: center;"><br  
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);  
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proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;  
--tw-translate-x: 0; --tw-translate-y: 0;" /></div></u></b>Light Emitting Diode atau sering disingkat  
dengan LED adalah komponen elektronika yang dapat memancarkan &nbsp;cahaya monokromatik  
ketika diberikan tegangan maju.&nbsp;&nbsp;&nbsp;Cara kerjanya pun hampir sama dengan Dioda yang  
memiliki dua kutub yaitu kutub Positif (P) dan Kutub Negatif (N). LED hanya akan memancarkan



```
--tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000;
--tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y:
1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000;
--tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;"><div
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);
--tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px;
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proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;
--tw-translate-x: 0; --tw-translate-y: 0; text-align: center;"><div style="--tw-border-spacing-x: 0;
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--tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;
--tw-translate-x: 0; --tw-translate-y: 0; text-align: start;"><div class="post-body entry-content"
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1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000;
--tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-size: 16.94px; line-height:
1.4; position: relative; width: 570px;"><div style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0;
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--tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y:
1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000;
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style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);
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--tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness:
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proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;
--tw-translate-x: 0; --tw-translate-y: 0; clear: both; color: #424242;"><span
style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5);
--tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px;
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proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;
--tw-translate-x: 0; --tw-translate-y: 0;"><div class="separator" style="--tw-border-spacing-x: 0;
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--tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000;
--tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity;
--tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0;
```





--tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-size: 13.2px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-size: medium;">&nbsp;</span>&nbsp;</span><span style="background-color: white; color: #4e4e4e; font-size: 13.2px;">1. Siapkan komponen yang akan digunakan</span></span></p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-family: Vollkorn; font-size: 13.2px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">&nbsp;&nbsp;&nbsp;&nbsp;</span>2. Posisikan komponen sesuai pada gambar</span></p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-family: Vollkorn; font-size: 13.2px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">&nbsp;&nbsp;&nbsp;&nbsp;</span>3. Rangkai semua komponen dengan benar dan tepat</span></p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-family: Vollkorn;

font-size: 13.2px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">&nbsp;&nbsp;&nbsp;&nbsp;</span>4. Untuk sensor jangan lupa memasukkan code hex, agar sensor dapat berfungsi</span></p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; background-color: white; color: #4e4e4e; font-family: Vollkorn; font-size: 13.2px;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0;">&nbsp;&nbsp;&nbsp;&nbsp;</span>5. tekan tombol play untuk menjalankan rangkaian</span></p><div style="color: #666666;"><span style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgb(59 130 246 / 0.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 #0000; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 #0000; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 #0000; --tw-shadow: 0 0 #0000; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; font-family: times;"><br /></span></div><p class="MsoNormal" style="color: #666666; text-align: justify;"><span style="color: #545454; text-align: start;"><span style="color: #666666;">5.</span><span id="percobaan" style="color: #666666;"></span><span style="color: #666666;">&nbsp;&nbsp;&nbsp;&nbsp;</span><span style="color: #666666;">&nbsp;&nbsp;&nbsp;&nbsp;</span><b style="color: #b87209; text-align: start;"><a href="#daftarisi" style="color: #b87209; text-decoration-line: none;">[bak]</a></b></p><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiZTRO4zxWvokbUK8IE4eLfgp9x-EHMjjiI2d\_7m1hJlp5\_8Bj7UrLxGNbaa75A-o9VjdRf\_COKOoxRiViK8V2YJudxUSMS-cDGyB5q5ZiUixo-09Eu0dPrTeSVIGcXJFRWO3pz-Kuomfp4DdoW-BvLZz50uvv9jxQB7T7Melp8--qJp2X-kz\_iGtBI9tl/s1030/2023-07-23%20(10).png" style="margin-left: 1em; margin-right: 1em;"></a></div><br /><div class="separator" style="clear: both; color: #666666; text-align: center;"><br /></div><br /><div class="separator" style="clear: both;







pada saat musim hujan. Digunakan Water Sensor untuk mendekteksi ketinggian air dan Sound Sensor untuk mendeteksi suara buzzer.

**Water Sensor** di letakan ditiang yang ditancapkan ke tanah. Water sensor mendeteksi ketinggian air, semakin banyak air yang mengenai lempengan tersebut, maka nilai resistansinya akan semakin kecil dan sebaliknya.

Ketika terjadi genangan banyaknya air yang mengenai lempengan tersebut maka nilai resistensinya akan kecil, menghasilkan resistensi telah aktif sesuai ketinggian air maka output dari water sensor akan mengeluarkan tegangan yang kemudian diumpankan ke induktor lalu diparalelkan ada yang ke kapasitor C1 dan ada yang diumpankan ke resistor R6 kemudian menuju ke IC 4559 Rangkaian Detektor Inverting. Dengan rumus  $V_o$  Detektor Inverting yaitu  $V_o = A_{ol} (V_3 - V_2)$ . Kemudian keluaran tegangan dari op-amp ini masuk ke rangkaian D Flip-Flop. Output tegangannya akan dikeluarkan dari pin Q lalu diumpankan ke resistor R12 lanjut ke kaki base transistor. Pada transistor ini menggunakan bias jenis fixed bias. Tegangan  $V_{BE}$  telah tercukupi ini

dapat mengaktifkan transistor, karena transistor dapat aktif pada kisaran tegangan 0,7-0,8V.

Saat transistor on, maka power supply akan mengeluarkan tegangan menuju relay, lalu ke kolektor, ke emitor, dan ke ground. Karena adanya tegangan pada relay, switch pada relay akan bergerak (relay on). Karena relay on maka baterai sebesar 12V dapat mengeluarkan tegangan menuju buzzer dan mengaktifkan buzzer sebagai pertanda bahwa ada genangan air.

**Sound Sensor** di pondok

Selanjutnya Sound sensor yang

diletakkan di dekat buzzer akan aktif (berlogika 1). Saat sound sensor aktif, maka output dari sound sensor akan mengeluarkan tegangan yang dihubungkan pada pin A IC demultiplexer 74LS139. Jika pin A aktif (high) dan pin B,E dihubungkan ke ground maka ic demux ini akan meneruskan tegangan pada pin output Y0,Y1,dan Y3 sesuai dengan function table. Pada output Y0 tegangan sebesar 4,80V diumpankan ke resistor 1k ohm sehingga tegangan menuju resistor sebesar 2,78V. Pada bias transistor ini menggunakan jenis bias Voltage divider bias seperti yang dirangkai sehingga tegangan pada transistor sebesar 0,74 V. Tegangan sebesar ini dapat mengaktifkan transistor, karena transistor dapat aktif pada kisaran tegangan 0,7-0,8V. Saat transistor on maka power supply akan mengeluarkan tegangan menuju relay, lalu ke kaki kolektor, lalu ke emitor, dan ke ground. Karena adanya tegangan pada relay

maka switch pada relay akan berpinda (relay on) sehingga baterai 9V dapat mengeluarkan tegangan menuju motor dan menggerakkan motor untuk membuang air yang berlebih pada tanah.

7.

Video

8.

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12.

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19.

