

<https://ilham202024.blogspot.com/2022/11/modul-3.html> >[KEMBALI KE MENU SEBELUMNYA]

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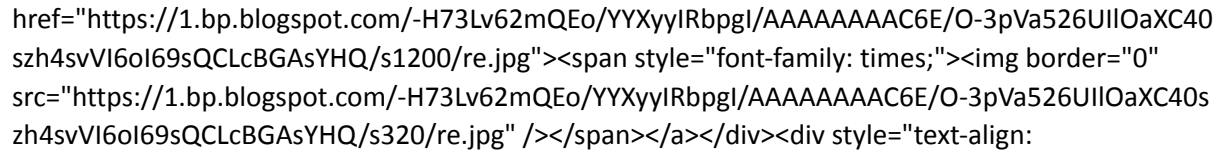
7. Link Download

1. Kondisi

Buat rangkaian seperti percobaan 1 pada modul.

2. Hardware

Ada beberapa alat yang digunakan



1. Resistor

Resistor merupakan komponen penting dan sering dijumpai dalam sirkuit Elektronik. Boleh dikatakan hampir setiap sirkuit Elektronik pasti ada Resistor. Tetapi banyak diantara kita yang bekerja di perusahaan perakitan Elektronik maupun yang menggunakan peralatan Elektronik tersebut tidak mengetahui cara membaca kode warna ataupun kode angka yang ada ditubuh Resistor itu sendiri.

Seperti yang dikatakan sebelumnya, nilai Resistor yang berbentuk Axial adalah diwakili oleh Warna-warna yang terdapat di tubuh (body) Resistor itu sendiri dalam bentuk Gelang. Umumnya terdapat 4 Gelang di tubuh Resistor, tetapi ada juga yang 5 Gelang.

Gelang warna Emas dan Perak biasanya terletak agak jauh dari gelang warna lainnya sebagai tanda gelang terakhir. Gelang Terakhirnya ini juga merupakan nilai toleransi pada nilai Resistor yang bersangkutan.

justify;">
</div><div style="text-align: justify;">Tabel dibawah ini adalah warna-warna yang terdapat di Tubuh Resistor

</div><div style="text-align: center;"></div><div style="text-align: center;">Tabel Kode Warna Resistor</div><div style="text-align: center;">
</div><div style="text-align: justify;">Perhitungan untuk Resistor dengan 4 Gelang warna :</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: center;"></div><div style="text-align: center;">
</div><div style="text-align: justify;">Cara menghitung nilai resistor 4 gelang</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Masukkan angka langsung dari kode warna Gelang ke-1 (pertama)</div><div style="text-align: justify;">Masukkan angka langsung dari kode warna Gelang ke-2</div><div style="text-align: justify;">Masukkan Jumlah nol dari kode warna Gelang ke-3 atau pangkatkan angka tersebut dengan 10 (10n)</div><div style="text-align: justify;">Merupakan Toleransi dari nilai Resistor tersebut</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Contoh :</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Gelang ke 1 : Coklat = 1</div><div style="text-align: justify;">Gelang ke 2 : Hitam = 0</div><div style="text-align: justify;">Gelang ke 3 : Hijau = 5 nol dibelakang angka gelang ke-2; atau kalikan 105</div><div style="text-align: justify;">Gelang ke 4 : Perak = Toleransi 10%</div><div style="text-align: justify;">Maka nilai Resistor tersebut adalah $10 \times 105 = 1.000.000$ Ohm atau 1 MOhm dengan toleransi 10%.</div><div style="text-align: justify;">Perhitungan untuk Resistor dengan 5 Gelang warna :</div><div style="text-align: center;"></div><div style="text-align: justify;">Cara Menghitung Nilai Resistor 5 Gelang Warna</div><div style="text-align: justify;">
</div>

Masukkan angka langsung dari kode warna Gelang ke-1 (pertama)

Masukkan angka langsung dari kode warna Gelang ke-2

Masukkan angka langsung dari kode warna Gelang ke-3

Masukkan Jumlah nol dari kode warna Gelang ke-4 atau pangkatkan angka tersebut dengan 10 (10ⁿ)

Merupakan Toleransi dari nilai Resistor tersebut

Contoh :

Gelang ke 1 : Coklat = 1

Gelang ke 2 : Hitam = 0

Gelang ke 3 : Hijau = 5

Gelang ke 4 : Hijau = 5 nol dibelakang angka gelang ke-2; atau kalikan 105

Gelang ke 5 : Perak = Toleransi 10%

Maka nilai Resistor tersebut adalah 105 * 105 = 10.500.000 Ohm atau 10,5 MOhm dengan toleransi 10%.

Contoh-contoh perhitungan lainnya :

Merah, Merah, Merah, Emas → $22 * 10^2 = 2.200 \text{ Ohm}$ atau 2,2 Kilo Ohm dengan 5% toleransi

Kuning, Ungu, Orange, Perak → $47 * 10^3 = 47.000 \text{ Ohm}$ atau 47 Kilo Ohm dengan 10% toleransi

Cara menghitung Toleransi :

2.200 Ohm dengan Toleransi 5% = $2.200 - 5\% = 2.090$

$2.200 + 5\% = 2.310$

ini artinya nilai Resistor tersebut akan berkisar antara 2.090 Ohm ~ 2.310 Ohm

2. LED (Light Emiting Diode)



2. LED (Light Emiting Diode)

LED adalah suatu semikonduktor yang memancarkan cahaya, LED mempunyai kecenderungan polarisasi. LED mempunyai kutub positif dan negatif (p-n) dan hanya akan menyala bila diberikan arus maju. Ini dikarenakan LED terbuat dari bahan semikonduktor yang hanya akan mengizinkan arus listrik mengalir ke satu arah dan tidak ke arah sebaliknya. Bila LED diberikan arus terbalik, hanya akan ada sedikit arus yang melewati LED. Ini menyebabkan LED tidak akan mengeluarkan emisi cahaya.

Arduino

Arduino adalah kit elektronik atau papan rangkaian elektronik open source yang di dalamnya terdapat komponen utama yaitu sebuah chip mikrokontroler dengan jenis AVR dari perusahaan Atmel. Arduino yang kita gunakan dalam praktikum ini adalah Arduino Uno yang menggunakan chip AVR ATmega328P. Dalam meprogram Arduino, kita bisa menggunakan komunikasi serial agar Arduino dapat berhubungan dengan komputer ataupun perangkat lain.

Adapun spesifikasi dari Arduino Uno ini adalah sebagai berikut:

Model	Arduino Uno
Mikrokontroler	ATmega328P
Tegangan Kerja	5V
Arsus Input	4-20mA
Output	0-5V
Frekuensi	1MHz
Port Serial	UART, I2C, SPI
Port USB	USB Type-B
Port Power	DC Jack
Port Analog	6-pin
Port Digital	14-pin
Port Expansion	Header pins
Port I/O	Digital I/O, Analog I/O
Port Memory	Flash memory, SRAM
Port Temperature	-40°C to +85°C
Port Humidity	0% to 90%
Port Vibration	0.5g to 10g
Port Shock	0.5g to 10g
Port ESD Protection	>±2kV
Port EMC	CE, FCC, RoHS
Port Safety	UL, CE, RoHS
Port Compliance	CE, FCC, RoHS
Port Certification	CE, FCC, RoHS
Port Warranty	1 year
Port Support	Online, Email, Phone
Port Training	Online, On-site
Port Consulting	Online, On-site
Port Maintenance	Online, On-site
Port Repair	Online, On-site
Port Replacement	Online, On-site
Port Upgrade	Online, On-site
Port Customization	Online, On-site
Port Integration	Online, On-site
Port Testing	Online, On-site
Port Packaging	Online, On-site
Port Shipping	Online, On-site
Port Delivery	Online, On-site
Port Installation	Online, On-site
Port Commissioning	Online, On-site
Port Handover	Online, On-site
Port Acceptance	Online, On-site
Port Closeout	Online, On-site

Bagian -

Bagian pada Arduino Uno :</p><div style="text-align: justify;">-Power USB</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Digunakan untuk menghubungkan Papan Arduino dengan komputer lewat koneksi USB.</div><div style="text-align: justify;">-Power jack</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Supply atau sumber listrik untuk Arduino dengan tipe Jack. Input DC 5 - 12 V.</div><div style="text-align: justify;">-Crystal Oscillator</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Kristal ini digunakan sebagai layaknya detak jantung pada Arduino. Jumlah cetak menunjukkan 16000 atau 16000 kHz, atau 16 MHz.</div><div style="text-align: justify;">-Reset</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Digunakan untuk mengulang program Arduino dari awal atau Reset.</div><div style="text-align: justify;">
</div><div style="text-align: justify;">-Digital Pins I / O</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Papan Arduino UNO memiliki 14 Digital Pin. Berfungsi untuk memberikan nilai logika (0 atau 1). Pin berlabel " ~ " adalah pin-pin PWM (Pulse Width Modulation) yang dapat digunakan untuk menghasilkan PWM.</div><div style="text-align: justify;">-Analog Pins</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Papan Arduino UNO memiliki 6 pin analog A0 sampai A5. Digunakan untuk membaca sinyal atau sensor analog seperti sensor jarak, suhu dsb, dan mengubahnya menjadi nilai digital.</div><div style="text-align: justify;">-LED Power Indicator</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Lampu ini akan menyala dan menandakan Papan Arduino mendapatkan supply listrik dengan baik.</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Bagian - bagian pendukung:</div><div style="text-align: justify;">-RAM</div><div style="text-align: justify;">
</div><div style="text-align: justify;">RAM (Random Access Memory) adalah tempat penyimpanan sementara pada komputer yang isinya dapat diakses dalam waktu yang tetap, tidak memperdulikan letak data tersebut dalam memori atau acak. Secara umum ada 2 jenis RAM yaitu SRAM (Static Random Acces Memory) dan DRAM (Dynamic Random Acces Memory).</div><div style="text-align: justify;">-ROM</div><div style="text-align: justify;">
</div><div style="text-align: justify;">ROM (Read-only Memory) adalah perangkat keras pada computer yang dapat menyimpan data secara permanen tanpa harus memperhatikan adanya sumber listrik. ROM terdiri dari Mask ROM, PROM, EPROM, EEPROM.</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Block Diagram Mikrokontroler ATmega 328P pada Arduino UNO</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Adapun block diagram mikrokontroler ATmega 328P dapat dilihat pada gambar berikut:</div><div style="text-align: justify;"></div><div style="text-align: justify;">
</div><div style="text-align: justify;">Block diagram dapat digunakan untuk memudahkan / memahami bagaimana kinerja dari mikrokontroler ATmega 328P.</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;">Pin-pin ATmega 328P:</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;">

jpeg" /> </div><div style="text-align: center;">Rangkaian Mikrokontroler ATMega 328P pada Arduino UNO</div><div style="text-align: justify;">
</div><div style="text-align: justify;">
</div><div style="text-align: justify;"></div><div style="text-align: justify;">
</div><div style="text-align: justify;">4. Push Button</div><div style="text-align: justify;"><b style="border: 0px none; box-sizing: border-box; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: start;"><br style="box-sizing: border-box;" /><br style="box-sizing: border-box; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; text-align: start;" /></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"></div><div style="border: 0px none; box-sizing: border-box; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;">Push Button<br style="box-sizing: border-box;" /></div><div style="border: 0px none; box-sizing: border-box; color: #444444; font-family: "open sans"; arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: start;"><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px none; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">
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//LED menyala</div><div class="separator" style="clear: both; "></div><div class="separator"
style="clear: both; ">else</div><div class="separator" style="clear: both; "></div><div
class="separator" style="clear: both; ">digitalWrite(buzzer,LOW); //LED mati</div><div
class="separator" style="clear: both; "></div><div class="separator" style="clear: both; ">
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Apakah bisa komunikasi UART berjalan jika dipasang dengan selain pin 0 dan pin 1 ? Jelaskan kenapa
dan teori sebenarnya ?</div><div class="separator" style="clear: both; color: #222222; text-align:
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```

Tidak bisa, karena pada mikrokontroler ini hanya menyediakan komunikasi serial yang tersedia pada pin digital 0 sebagai rx dan pin digital 1 sebagai tx sebagai pengirim sinyal.

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Name="Smart Link"/>
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</xml><![endif]--><!--[if gte mso 10]>
<style>
/* Style Definitions */
table.MsoNormalTable
{mso-style-name:"Table Normal";
mso-tstyle-rowband-size:0;
mso-tstyle-colband-size:0;
mso-style-noshow:yes;
mso-style-priority:99;

```

mso-style-parent:"";  
mso-padding-alt:0cm 5.4pt 0cm 5.4pt;  
mso-para-margin-top:0cm;  
mso-para-margin-right:0cm;  
mso-para-margin-bottom:8.0pt;  
mso-para-margin-left:0cm;  
line-height:107%;  
mso-pagination:widow-orphan;  
font-size:11.0pt;  
font-family:"Calibri",sans-serif;  
mso-ascii-font-family:Calibri;  
mso-ascii-theme-font:minor-latin;  
mso-hansi-font-family:Calibri;  
mso-hansi-theme-font:minor-latin;  
mso-bidi-font-family:"Times New Roman";  
mso-bidi-theme-font:minor-bidi;  
mso-fareast-language:EN-US;}

</style>

<![endif]--><div class="separator" style="clear: both; text-align: justify;"><span>2. Apa yang terjadi jika baud rate yang digunakan pada program master berbedadengan slave ? jelaskan penyebab dan solusinya ?</span></div><div class="separator" style="clear: both; text-align: justify;"><span>Jawab :</span></div></div><div class="separator" style="clear: both; text-align: left;"></div><div class="separator" style="clear: both; text-align: left;">

<p class="MsoNormal">Lampu LED tidak akan hidup saat button ditekan, karena baud rate master berbeda denganslave maka tidak akan dapat menjalin komunikasi,solusinya yaitu pada baud rate master dan slave harus sama agar komunikasi bisa terjadi.</p>

<!--[if gte mso 9]><xml>

<o:OfficeDocumentSettings>

<o:AllowPNG/>

</o:OfficeDocumentSettings>

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</xml><![endif]--><!--[if gte mso 9]><xml>

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 <w:TrackFormatting/>

 <w:PunctuationKerning/>

 <w:ValidateAgainstSchemas/>

 <w:SaveIfXMLInvalid>>false</w:SaveIfXMLInvalid>

 <w:IgnoreMixedContent>>false</w:IgnoreMixedContent>

 <w:AlwaysShowPlaceholderText>>false</w:AlwaysShowPlaceholderText>

 <w:DoNotPromoteQF/>

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 <w:LidThemeAsian>X-NONE</w:LidThemeAsian>

 <w:LidThemeComplexScript>X-NONE</w:LidThemeComplexScript>

 <w:Compatibility>

 <w:BreakWrappedTables/>

 <w:SnapToGridInCell/>

 <w:WrapTextWithPunct/>

 <w:UseAsianBreakRules/>

 <w:DontGrowAutofit/>

 <w:SplitPgBreakAndParaMark/>

 <w:EnableOpenTypeKerning/>

 <w:DontFlipMirrorIndents/>

 <w:OverrideTableStyleHps/>

 </w:Compatibility>

 <m:mathPr>

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 <m:brkBin m:val="before"/>

 <m:brkBinSub m:val="--"/>

 <m:smallFrac m:val="off"/>
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```

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<m:rMargin m:val="0"/>
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<m:intLim m:val="subSup"/>
<m:naryLim m:val="undOvr"/>
</m:mathPr></w:WordDocument>
</xml><![endif]--><!--[if gte mso 9]><xml>
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