

<div style="text-align: center;">

[KEMBALI KE MENU SEBELUMNYA]</div>

<center>

<div style="background-color: white; border: 2px dashed rgb(23, 128, 221); height: 240px; overflow: auto; padding: 10px; text-align: center; width: 330px;">

DAFTAR ISI

<div style="text-align: left;">

1. Kondisi</div>

<div style="text-align: left;">

2. Rangkaian Simulasi</div>

<div style="text-align: left;">

3. Flowchart</div>

<div style="text-align: left;">

4. Listing Program</div>

<div style="text-align: left;">

5. Video Rangkaian

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6. Link Download</div>

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</div>1. Kondisi

[Kembali]<div>
</div><div><p>Percobaan 2 Kondisi 13</p><p>Ganti LED menjadi Buzzer, Tambahkan resistor sebelum Buzzer sebesar 1k ohm</p></div><div>
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2. Rangkaian Simulasi

[Kembali]</div><div>
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</div><b style="font-weight: bold;">3. Flowchart

[Kembali]</div><div>
</div><div>Master</div><div><div>
</div><div class="separator" style="clear: both; text-align: center;"></div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: left;">
</div><div class="separator" style="clear: both; text-align: left;">Slave</div><div class="separator" style="clear: both; text-align: left;">
</div><div class="separator" style="clear: both; text-align: left;"><div class="separator" style="clear: both; text-align: center;">
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</div><div style="font-weight: bold;">
</div><div>4. Listing Program

[Kembali]<div style="font-weight: bold;">
</div><div>MASTER
<span style="font-family: times, "times new

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roman";, serif;"><span></span><div><div><span style="font-family: times, &quot;times
new roman";, serif;"><b><br /></b></span></div><div style="font-weight: 400;"><span
style="font-family: times, &quot;times new roman";, serif;"><div>#include <SPI.h>
//Deklarasi library SPI</div><div>#define button 2</div><div>void setup (void)
{</div><div>&nbsp; pinMode(button, INPUT_PULLUP);</div><div>&nbsp;
Serial.begin(115200 ); //Set baud rate 115200</div><div>&nbsp; digitalWrite(SS,
HIGH);</div><div>&nbsp; // disable Slave Select</div><div>&nbsp; SPI.begin
();</div><div>&nbsp; SPI.setClockDivider(SPI_CLOCK_DIV8); //divide the clock by
8</div><div>}</div><div>void loop (void) {</div><div>&nbsp; char c;</div><div>&nbsp; int
nilai=digitalRead(button);</div><div>&nbsp; if(nilai==0){</div><div>&nbsp;
&nbsp;digitalWrite(SS, LOW); //enable Slave Select</div><div>&nbsp; // send test
string</div><div>&nbsp; for (const char * p = "Hello, world!\r" ; c = *p;
p++)</div><div>&nbsp; {</div><div>&nbsp; &nbsp; SPI.transfer (c);</div><div>&nbsp;
&nbsp; Serial.print(c);</div><div>&nbsp; }</div><div>&nbsp; digitalWrite(SS, HIGH); //
disable Slave Select</div><div>&nbsp; delay(1000);</div><div>&nbsp;
}</div><div>}&nbsp;</div><div><br /></div><div><br /></div><div>SLAVE</div><div><br
/></div><div><div>#include <SPI.h></div><div>#define led 2</div><div><br
/></div><div>char buff [50];</div><div>volatile byte indx;</div><div>volatile boolean
process;</div><div><br /></div><div>void setup (void) {</div><div>&nbsp; Serial.begin
(115200);</div><div>&nbsp; pinMode(led, OUTPUT); // have to send on master in so it set as
output</div><div>&nbsp; SPCR |= _BV(SPE); // turn on SPI in slave mode</div><div>&nbsp;
indx = 0; // buffer empty</div><div>&nbsp; process = false;</div><div>&nbsp;
SPI.attachInterrupt(); // turn on interrupt</div><div>}</div><div><br /></div><div>ISR
(SPI_STC_vect) // SPI interrupt routine</div><div>{</div><div>&nbsp; byte c = SPDR; // read
byte from SPI Data Register</div><div>&nbsp; if (indx < sizeof buff) {</div><div>&nbsp;
&nbsp; buff [indx++] = c; // save data in the next index in the array buff</div><div>&nbsp;
&nbsp; if (c == '\r') //check for the end of the word</div><div>&nbsp; &nbsp; &nbsp; process =
true;</div><div>&nbsp; }</div><div>}</div><div>void loop (void) {</div><div>&nbsp; if
(process) {</div><div>&nbsp; &nbsp; digitalWrite(led, HIGH);</div><div>&nbsp; &nbsp;
process = false; //reset the process</div><div>&nbsp; &nbsp; Serial.println (buff); //print the
array on serial monitor</div><div>&nbsp; &nbsp; indx = 0; //reset button to
zero</div><div>&nbsp; &nbsp; delay(1000);</div><div>&nbsp; }</div><div>&nbsp;
else</div><div>&nbsp; {</div><div>&nbsp; &nbsp; digitalWrite(buzzer,
LOW);</div><div>&nbsp; }</div><div>}&nbsp;</div><div><br
/></div></div></span></div></span></span></div><div style="font-weight:
bold;"><span style="font-family: times, times new roman, serif;"><br /></span><span
style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif;"><span
style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif; font-size:
small;"><b>5. Video Simulasi</b>

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