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<p>&nbsp;<span style="font-family: times;">&nbsp;</span><span style="font-family: times;
font-size: x-large;">Laporan Akhir 1 Modul 1</span></p><div><span style="font-family: times;"><br
/></span></div><div><span style="font-family: times;"><br /></span></div><span
style="font-family: times;"><br /></span><div style="text-align: center;"><a
href="https://febry212030.blogspot.com/p/modul-1_16.html"><span style="font-family:
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/></span><center><div style="background-color: white; border: 2px dashed rgb(23, 128, 221);
height: 240px; overflow: auto; padding: 10px; width: 330px;"><span style="font-family:
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diagram blok"><span style="font-family: times;">1. Foto Hardware dan diagram
blok</span></a></div><div style="text-align: left;"><a href="#Prosedur Percobaan"><span
style="font-family: times;">2. Prosedur Percobaan</span></a></div><div style="text-align: left;"><a
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Simulasi dan Prinsip Kerja</span></a></div><div style="text-align: left;"><a href="#Flowchart dan
Listing program"><span style="font-family: times;">4. Flowchart dan Listing
Program</span></a></div><div style="text-align: left;"><a href="#Kondisi"><span style="font-family:
times;">5. Kondisi</span></a></div><div style="text-align: left;"><a href="#Video Simulasi
Praktikum"><span style="font-family: times;">6. Video Simulasi Praktikum</span></a></div><div
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Analisa</span></a></div><div style="text-align: left;"><span style="font-family: times;"><a
href="#Download File">8. Download File</a><br /></span><div><div style="margin: 5px;"><div
class="smallfont" style="margin-bottom: 2px;"><span style="font-family: times;"><br
/></span></div></div></div></div></div></div></div></div><div style="font-family: times;"><div
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/></b></span></span></div><div><span><span><div style="background-color: white; border: 0px;
box-sizing: border-box; color: #444444; font-size: x-large; margin: 0px; padding: 0px; text-align:
center;">Percobaan 2&nbsp;</div><div style="background-color: white; border: 0px; box-sizing:
border-box; color: #444444; font-size: x-large; margin: 0px; padding: 0px; text-align:
center;">Interrupt</div><div style="background-color: white; border: 0px; box-sizing: border-box;
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#444444; font-size: large; margin: 0px; padding: 0px;"><br
/></b></span></span></b></div></span></span></div><b>1. Foto Hardware dan diagram
Blok</b>&nbsp;<span><a name="Pendahuluan"></a></span><a
href="#home">[Kembali]</a></span></span><div><span style="font-family: times;"><br
/></span></div><div><span style="font-family: times;">a. Hardware</span></div><div><span
style="font-family: times;"><br /></span></div><div><div class="separator" style="clear: both;
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/s4160/WhatsApp%20Image%202024-04-03%20at%208.27.25%20AM.jpeg" imageanchor="1"
style="margin-left: 1em; margin-right: 1em;"></a></div><br /></div>

terdiri dari beberapa komponen, seperti breadboard, LED, LCD, arduino uno, jumper, dipswitch , buzzer dan lainnya. Dimana pada rangkaian ini dipswitch bertindak sebagai input yang nantinya akan terhubung nantinya ke arduino Uno, dan LCD dan Buzzer bertindak sebagai penampil output yang diberikan.

Pada percobaan ini , menerapkan interrupt pada arduino uno, dimana interrupt ini nantinya bertujuan untuk mengontrol LED, Buzzer, dan menampilkan jumlah hitungan atau counter pada LCD. Ketika program memasuki loop, LED akan dinyalakan ,Buzzer akan dimatikan dan proses hitungan akan ditampilkan pada LCD. Dimana Buzzer berfungsi untuk mereset proses

praktikum, rangkaian ini digunakan sebagai penghitung sederhana yang akan memberikan umpan balik ketika switch diberi kondisi. Dengan menggunakan interrupt, rangkaian dapat merespon lebih cepat terhadap inputan yang diberikan tanpa mengganggu pengulangan utama. Namun pada saat rangkaian disimulasikan, terdapat penundaan yang cukup lama setelah direset, untuk mengatasinya perlu untuk disesuaikan pada kodingan agar rangkaian dapat merespons lebih cepat.

```

#d35400;">setup(<span style="color:
#434f54;">{</div><div> lcd.<span style="color:
#d35400;">init(</div><div> lcd.backlight(</div><div> <span style="color:
#d35400;">pinMode(LED,OUTPUT<span style="color:
#434f54;">)</div><div> pinMode(tombol,INPUT<span style="color:
#434f54;">)</div><div> attachInterrupt(digitalPinToInterrupt(2<span style="color:
#434f54;">),tombol_ditekan, FALLING) //pin 2 (interrupt 0) digunakan </div><div>sebagai interrupt
eksternal</div><div>}</div><div><span style="color:
#00979d;">voidloop<span style="color:
#434f54;">({ //Main
Program</div><div> digitalWrite(LED,HIGH<span style="color:
#434f54;">)</div><div> digitalWrite(buzzer,LOW<span style="color:
#434f54;">)</div><div> lcd.setCursor(<span style="color:
#005c5f;">00<span style="color:
#434f54;">)</div><div> lcd.print(<span style="color:
#005c5f;">"Count:")</div><div> lcd.setCursor(0<span style="color:
#005c5f;">1)</div><div> <span style="color:
#d35400;">lcd.print<span style="color:
#434f54;">(count)</div><div> 1 // menambahkan integer count
dengan angka 1</div><div> delay(1000<span style="color:
#434f54;">)</div><div>}</div><div> //membuat fungsi bernama tombol_ditekan, fungsi ini (ISR) dieksekusi
secara otomatis setelah arduino </div><div>memperoleh sinyal interrupt di pin 2</div><div>voidtombol_ditekan<span style="color:
#434f54;">(</div><div>{</div><div> digitalWrite(LED,LOW)</div><div> <span style="color:
#d35400;">digitalWrite(buzzer,HIGH)</div><div> <span style="color:
#005c5f;">0</div><div> delay(100000<span style="color:
#434f54;">)</div><div><span style="color:
#434f54;">}</div></div></div><div>
<br

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5. Video Simulasi Praktikum

[\[Kembali\]](#)

6. Analisa

[\[Kembali\]](#)

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