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<a
href="https://muhammadmirzaavicena211018.blogspot.com/2024/03/modul-2.html">[KEMBA
LI KE MENU SEBELUMNYA]</a></div>

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<b>DAFTAR ISI</b>

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

<a href="#Prosedur">1. Prosedur</a></div>

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

<a href="#Hardware">2. Hardware dan Diagram Blok</a></div>

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

<a href="#Rangkaian">3. Rangkaian Simulasi dan Prinsip Kerja</a></div>

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

<a href="#Flowchart">4. Flowchart dan Listing Program</a></div>

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

<a href="#Kondisi">5. Kondisi</a></div>

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

<a href="#Simulasi">6. Video Simulasi</a></div>

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

<a href="#Download">7. Download File</a><br />

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roman" , serif;">
</div><div style="text-align: center;">Tugas Pendahuluan 1</div><div style="text-align: center;"> Modul 2</div><div style="text-align: center;">
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</div><div style="font-size: medium; text-align: center;">
</div>1. Prosedur

[Kembali]<div>
<div><div style="background-color: white; border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">1. Rangkai rangkaian di proteus sesuai dengan kondisi percobaan.
2. Tulis program untuk arduino di software Arduino IDE.
3. Compile program tadi, lalu upload ke dalam arduino.
4. Setelah program selesai di upload, jalankan simulasi rangkaian pada proteus.</div><div>
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2. Hardware dan Diagram Blok

[Kembali]</div><div>
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IC PCF8574</div><div class="separator" style="clear: both; cursor:
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></blockquote></blockquote><p style="background-color: white; color: #201f20; cursor:
url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;
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</div></div></div></center></div><div class="separator"

style="clear: both; text-align: center;">
</div>Diagram Blok :</div><div>
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<div class="separator" style="clear: both;

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</div>
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</div><div>

<span

style="font-family: "times" , "times new roman" , serif; font-size:

small;">3. Rangkaian Simulasi dan Prinsip Kerja

[Kembali]</div><div> </div><div>Rangkaian

Simulasi :</div><div>
</div><div class="separator" style="clear: both; text-align:

center;"><div class="separator" style="clear: both; text-align: center;"><a

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imageanchor="1" style="margin-left: 1em; margin-right: 1em;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div>

</div>
<div>Prinsip Kerja :</div><div>
</div><div>Pada percobaan ini output yang digunakan adalah LCD,Motor DC dan LED,

dan inputan interrupt berupa dipswitch. untuk output LCD disini menggunakan I2C yang terhubung ke kaki A4 dan A5 ,dan untuk motor yang menggunakan driver motor terhubung ke pin 12 dan 13 arduino, sitch untuk interrupt terhubung ke pin 2 arduino dan LED terhubung ke pin 3 dan 4 arduino.</div><div>
</div><div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #201f20; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; font-size: 15px; margin: 0px; padding: 0px; text-align: justify;">Rangkaian ini menggunakan komponen antara lain yaitu Arduino Uno, motor DC, LCD, PCF8574, DIP Switch, Driver L293D, Potensiometer, Baterai, Resistor, power supply, dan Ground. </div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #201f20; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; font-size: 15px; margin: 0px; padding: 0px; text-align: justify;"><br style="cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;" /></div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #201f20; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; margin: 0px; padding: 0px; text-align: justify;"> Rangkaian ini memanfaatkan Arduino Uno sebagai pusat kendali, yang terhubung dengan motor DC dan LCD 16x2 untuk menampilkan informasi dan mengontrol gerakan motor. Untuk menampilkan informasi, Arduino memanfaatkan LCD 16x2. Namun, karena keterbatasan jumlah pin I/O yang dimiliki, perantara berupa PCF8574 dibutuhkan untuk menghubungkan keduanya. PCF8574 bertindak sebagai ekspander I/O, memperluas jangkauan pin Arduino sehingga dapat berinteraksi dengan LCD secara efisien.</div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #201f20; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; margin: 0px; padding: 0px; text-align: justify;"><br style="cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important;" /></div><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #201f20; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; margin: 0px; padding: 0px; text-align: justify;"><span style="font-size:

```

x-small;"><span style="color: #444444; cursor:
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url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto
!important;">&nbsp;&nbsp;&nbsp;&nbsp;</span>Sementara itu, motor DC yang terhubung ke
Arduino melalui pin digital akan berputar ke kanan. Arah putaran ini dikontrol oleh program
yang diunggah ke Arduino.&nbsp;</span><span style="color: #444444; cursor:
url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto
!important;">Lalu&nbsp;&nbsp;&nbsp;terdapat switch yang terhubung ke Arduino. Switch ini berfungsi
untuk memicu interrupt yang mana ketika switch ditekan, interrupt&nbsp;&nbsp;dipicu.
Interrupt&nbsp;&nbsp;ini menyebabkan program&nbsp;&nbsp;menunda sementara eksekusi fungsi
utama dan beralih ke fungsi penanganan interrupt.</span></span></div><div
class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear:
both; color: #201f20; cursor:
url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto !important;
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!important;"><span style="cursor:
url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto
!important;">&nbsp;&nbsp;&nbsp;&nbsp;</span>Selama interrupt&nbsp;&nbsp;aktif, program yang telah
ditetapkan untuk menangani interrupt&nbsp;&nbsp;akan dijalankan. Dalam rangkaian ini, program
yang dijalankan saat interrupt&nbsp;&nbsp;adalah menghentikan motor DC selama 3 detik. Selain
menghentikan motor, fungsi penanganan interrupt&nbsp;&nbsp;&nbsp;&nbsp;juga&nbsp;&nbsp;dapat&nbsp;&nbsp;
diprogram untuk&nbsp;&nbsp;menghentikan&nbsp;&nbsp;"Counting" pada LCD.&nbsp;&nbsp;Artinya, nilai
hitungan yang ditampilkan pada LCD akan "membeku" pada angka terakhir yang
ditampilkan saat tombol ditekan.&nbsp;</span><span style="color: #444444; cursor:
url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto
!important;">Setelah durasi interrupt&nbsp;&nbsp;selesai (3 detik berlalu), program akan kembali
menjalankan fungsi utama. Fungsi utama ini melanjutkan pengendalian motor dan
penghitung mundur dari kondisi terakhir sebelum interupsi.</span></span></div><div
class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear:
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```

```
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url(&quot;https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur&quot;), auto
!important;">&nbsp;&nbsp;&nbsp;&nbsp;</span>Komponen lainnya yaitu Potensiometer yang
berfungsi untuk mengatur kontras layar LCD, resistor berfungsi untuk membatasi arus pada
rangkain agar dapat berjalan dengan baik dan terhindar dari kerusakan akibat arus atau
tegangan yang berlebihan.</span></span></div></div><div><br /></div><div><span
style="font-family: times, times new roman, serif;"><div class="separator" style="clear: both;
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```

```
<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>4. Flowchart dan Listing Program </b>
```

```
<a name="Flowchart"></a>
```

```
<a href="#home">[Kembali]</a></span></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;"><br
/></span></span></div><div><span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif;"><br /></span></div><div><span style="font-family: &quot;times&quot; ,
&quot;times new roman&quot; , serif;">Flowchart :</span></div><div><span
style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif;"><br
/></span></div><div><span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif;"><br /></span></div><div><span style="font-family: &quot;times&quot; ,
&quot;times new roman&quot; , serif;"><div class="separator" style="clear: both; text-align:
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center;"><br /></div><br /><div class="separator" style="clear: both;
text-align: center;"><br /></div><br /><div class="separator" style="clear: both;
text-align: left;">Listing Program :</div><div class="separator" style="clear: both; text-align: left;"><br
/></div></span></div><div><span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif;"><span style="background-color: white;"><span
style="white-space-collapse: preserve;">#include<LiquidCrystal_I2C.h>
```

```
#define LED1 3 //pin 13 bernama LED
```

```
#define tombol 2 //pin 2 (pin interrupt) bernama tombol
```

```
#define LED2 4
```

```
#define front 12
```

```
#define back 13
```

```
static int count = 0;
```

```
unsigned long previousMillis = 0; // variabel untuk menyimpan waktu terakhir motor berjalan atau berhenti
```

```
const unsigned long motorInterval = 20000; // interval total waktu untuk motor (5 detik + 3 detik + 5 detik + 7 detik = 20 detik)
```

```
LiquidCrystal_I2C lcd(0x27, 16, 2);
```

```
void tombol_ditekan()
```

```
{
```

```
digitalWrite(LED1,HIGH);
```

```
digitalWrite(LED2,HIGH);
```

```
//delay(1000);
```

```
digitalWrite(front, LOW);
```

```
digitalWrite(back, LOW);
```

```
delay(3000);
```

```
count = 0;
```

```
}
```

```
void setup() {
```

```
lcd.init();
```

```
lcd.backlight();
```

```
pinMode(LED1,OUTPUT);
```

```
pinMode(LED2,OUTPUT);
```

```
pinMode(front,OUTPUT);
```

```
pinMode(back,OUTPUT);
```

```
pinMode(tombol,INPUT);
```

```
attachInterrupt(digitalPinToInterrupt(2),tombol_ditekan, FALLING); //pin 2 (interrupt 0) digunakan sebagai interrupt eksternal
```

```
}
```

```

void loop() { //Main Program
    unsigned long currentMillis = millis();
    unsigned long elapsedMillis = currentMillis - previousMillis;
    if (elapsedMillis < 5000) { // Motor berputar ke kanan selama 5 detik
        digitalWrite(front, HIGH);
        digitalWrite(back, LOW);
    } else if (elapsedMillis < 8000) { // Motor mati selama 3 detik
        digitalWrite(front, LOW);
        digitalWrite(back, LOW);
    } else if (elapsedMillis < 13000) { // Motor berputar ke kiri selama 5 detik
        digitalWrite(front, LOW);
        digitalWrite(back, HIGH);
    } else if (elapsedMillis < 20000) { // Motor mati selama 7 detik
        digitalWrite(front, LOW);
        digitalWrite(back, LOW);
    } else {
        digitalWrite(front, HIGH);
        digitalWrite(back, LOW);
    }
}

```

```

int nilai;
nilai = 15+count;
digitalWrite(LED1,LOW);
digitalWrite(LED2,LOW);
lcd.setCursor(0,0);
lcd.print("Count:");
lcd.setCursor(0,1);
lcd.print(nilai);
count -- ;

```

[illegible]

<https://docs.google.com/document/d/1TLUAVvfHSOSmKilwD0BaZz1tjPPUukRB/edit?usp=sharing&oid=109090949032408067919&rtpof=true&sd=true>> klik disini

File Rangkaian

<https://drive.google.com/uc?expert=download&id=1MjJEXEtptWZ5dAXBYMC7sKXhdCsRP5lv>>klik disini
Video Percobaan

<https://youtu.be/JpmP4Y7ZhQ>> klik disini

Listing Program

<https://drive.google.com/uc?expert=download&id=1nmBZPV0y2xm5DWDrdbi5qU6FBAmPyU3f>> klik disini

Datasheet Arduino

<https://drive.google.com/file/d/1WIZjOBUokzBjwLPkaJ37Ov3GmsLOpTEQ/view?usp=sharing>>klik disini

<https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur>, auto !important; font-family: Arial, sans-serif; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-variant-alternates: inherit; font-variant-east-asian: inherit; font-variant-numeric: inherit; font-variant-position: inherit; font-variation-settings: inherit; line-height: inherit; margin: 0px 0px 15px; padding: 0px; text-align: left; vertical-align: baseline;">
Datasheet Arduino

<https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur>, auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">
Datasheet Potensiometer

<https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur>, auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">
Datasheet Potensiometer

https://drive.google.com/file/d/1_ni7b7u5w4l8JzZm51NFVkuC1bJ2IPLD/view?usp=sharing style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 0px; box-sizing: border-box; color: #597e00; cursor: url(https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur), auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">>>>

inherit; font-weight: inherit; line-height: inherit; margin: 0px; outline: none; padding: 0px; text-align: justify; text-decoration-line: none; transition: all 0.3s ease 0s; vertical-align: baseline;"><b style="border: 0px; box-sizing: border-box; cursor: url("https://ani.cursors-4u.net/cursors/cur-11/cur1089.cur"), auto !important; font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; line-height: inherit; margin: 0px; padding: 0px; text-align: justify; vertical-align: baseline;">□ Datasheet LCD→ klik disini
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font-family: verdana; font-feature-settings: inherit; font-kerning: inherit; font-optical-sizing: inherit; font-stretch: inherit; font-style: inherit; font-variant: inherit; font-variation-settings: inherit; font-weight: inherit; line-height: inherit; margin: 0px; outline: none; padding: 0px; text-align: justify; text-decoration-line: none; transition: all 0.3s ease 0s; vertical-align: baseline;">>klik disini
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