

```
<a name="home">

</a>

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<a
href="https://raras211012.blogspot.com/p/prak-up-modul-1-general-input-dan-output.html">[KEMB
ALI KE MENU SEBELUMNYA]</a></div>

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<b>DAFTAR ISI</b>

<br />

<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 />

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

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<div style="font-size: medium;">
</div><div style="text-align: center;">Tugas Pendahuluan 1 Modul 1</div><div style="text-align: center;">(Percobaan 1 Kondisi 4)</div><div style="font-size: medium; text-align: center;">
</div>1. Prosedur

[Kembali]<div>
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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><p data-darkreader-inline-bgcolor="" style="--darkreader-inline-bgcolor: #191b1c; background-color: white; text-align: left;">Hardware :</p><p data-darkreader-inline-bgcolor="" style="--darkreader-inline-bgcolor: #191b1c; background-color: white; text-align: left;">1. Arduino</p><div class="separator" data-darkreader-inline-bgcolor="" style="--darkreader-inline-bgcolor: #191b1c; background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><a data-darkreader-inline-color="" href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiP2FZNlli2vS4dFiXq0-TqMce8NFGqGqyfqKyDWOwb04v1aWvCkNuTS4eFfspejRNiXBp7CVYghgByA9vR6XI7zhy2b_tMtaAgUrwfPMUPvkzmZ4Qe1Ow9unKrRqt0bnjEikhQCRekYjt_2JA3fOQRZatDXqrYN9fW3_7v4VeqEnHgNCOYQV3iLWcY/s320/arudino.png" style="--darkreader-inline-color: #d3cec6; color: #280f53; margin-left: 1em; margin-right: 1em; text-decoration-line: none;"></div><div data-darkreader-inline-bgcolor="" style="--darkreader-inline-bgcolor: #191b1c; background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">
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3.
LED</div><div data-darkreader-inline-bgcolor="" style="--darkreader-inline-bgcolor:
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</div></div></div><div>
</div></div><div><div>

3. Rangkaian Simulasi dan Prinsip Kerja

[\[Kembali\]](#home)
Rangkaian Simulasi :

[!\[\]\(https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh0Wo7v-OoIFQ-vvtILok7oO2kj pK5Jb43-c3lwCIWSmNCs2kEMfhZkVK4P_IKbHi4oE7vmcpqGIJ8h1POGMeT9MXC5nb2Hne-eiZ_QHQjf2 n4dAEVGtmKuv0G1CUrh0OCjI93BUYNmMwmVCmhlZag3etserh5cG5NokcGjN6OBo9-2MbvoN-0a12 hLEAw/w480-h288/Screenshot%202024-03-18%2012740.png\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh0Wo7v-OoIFQ-vvtILok7oO2kj pK5Jb43-c3lwCIWSmNCs2kEMfhZkVK4P_IKbHi4oE7vmcpqGIJ8h1POGMeT9MXC5nb2Hne-eiZ_QHQjf 2n4dAEVGtmKuv0G1CUrh0OCjI93BUYNmMwmVCmhlZag3etserh5cG5NokcGjN6OBo9-2MbvoN-0a12 hLEAw/s1313/Screenshot%202024-03-18%2012740.png)

Prinsip Kerja
Percobaan ini menunjukkan cara kerja push button dan LED dengan Arduino. Program yang digunakan dapat dimodifikasi untuk mengontrol LED dengan berbagai cara. Caranya yaituPada rangkaian ini push button menjadi input dari rangkaian dan LED sebagai outputnya. pada percobaan, push button dipasang pada pin 10 dan 11 sedangkan LED dipasang pada pin 2,3,4,5,6 pada arduino. saat salah satu push button ditekan maka LED akan aktif semua dan saat kedua push button ditekan maka akan ada 4 LED blink.

4. Flowchart dan Listing Program

[\[Kembali\]](#home)**Flowchart :******

<a

href="https://blogger.googleusercontent.com/img/a/AVvXsEiqfqiNXJSgucpajJddpTFXFFcxNp6vwjxrGlbihWkQUrwpmpmtB0DL6VA7K9E3qaY2RuQ-bJwOaXyCN2p86myMPwnPK_reFOAQPCmBkC4KEbau2qhUHUpUptKW7IYw8CW3Xf1DnNlKvK2pYdzabOEDDI140E3s-r2Ix7OTM8goFZiJcGJvJTMbcz7Qr0tuWo" style="margin-left: 1em; margin-right: 1em;"></div>

<p></p><p style="text-align: left;">Listing Program :</p><div style="text-align: left;"><div><div style="background-color: white; color: #4e5b61; font-family: Consolas, "Courier New", monospace; font-size: 14px; line-height: 19px; white-space: pre;"><div>const int ledPin[] = 2, 3, 4, 5, 6; // Pin untuk LED</div><div>const int buttonPin[] = 7, 8; // Pin untuk push button</div><div>int buttonState[] = 0, 0; // Status push button</div>
<div>void setup() </div><div> // Inisialisasi pin LED sebagai output</div><div> for int i = 0; i < 5; i++ pinModeledPin[i], OUTPUT</div><div> </div><div> // Inisialisasi pin push button sebagai input</div><div> for int i = 0; i < 2; i++ pinModebuttonPin[i], INPUT</div><div> </div><div></div>
<div>void loop() </div><div> // Baca status push button</div><div> for int i = 0; i < 2; i++

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#434f54;"></span> <span style="color: #d35400;"></span>  
#434f54;">digitalRead</span><span style="color: #434f54;"></span><span style="color:  
#d35400;">buttonPin</span>[i]<span style="color: #434f54;"></span></div><div>&nbsp;<span  
style="color: #434f54;"></span></div><br /><div><span style="color: #95a5a6;">&nbsp;</span> // Kondisi  
1: 1 button menghidupkan 5 LED</span></div><div>&nbsp;<span style="color: #728e00;">if</span>  
<span style="color: #434f54;"></span><span style="color: #d35400;">buttonState</span>[<span  
style="color: #005c5f;">0</span>] == LOW &amp;&amp; <span style="color:  
#d35400;">buttonState</span>[<span style="color: #005c5f;">1</span>] == HIGH<span style="color:  
#434f54;"></span> <span style="color: #434f54;"></span></div><div>&nbsp;<span  
style="color: #728e00;">for</span> <span style="color: #434f54;"></span><span style="color:  
#00979d;">int</span> i = <span style="color: #005c5f;">0</span>; i &lt; <span style="color:  
#005c5f;">5</span>; i++<span style="color: #434f54;"></span> <span style="color:  
#434f54;"></span></div><div>&nbsp;<span style="color: #728e00;">if</span> <span style="color: #434f54;"></span>  
<span style="color: #d35400;">ledPin</span>[i], HIGH<span style="color: #434f54;"></span></div><div>&nbsp;<span  
style="color: #434f54;"></span></div><div>&nbsp;<span style="color: #728e00;">else</span> <span  
style="color: #728e00;">if</span> <span style="color: #434f54;"></span><span style="color:  
#d35400;">buttonState</span>[<span style="color: #005c5f;">0</span>] == HIGH &amp;&amp;  
<span style="color: #d35400;">buttonState</span>[<span style="color: #005c5f;">1</span>] ==  
LOW<span style="color: #434f54;"></span> <span style="color:  
#434f54;"></span></div><div>&nbsp;<span style="color: #728e00;">for</span> <span  
style="color: #434f54;"></span><span style="color: #00979d;">int</span> i = <span style="color:  
#005c5f;">0</span>; i &lt; <span style="color: #005c5f;">5</span>; i++<span style="color: #434f54;"></span>  
#434f54;"></span> <span style="color: #434f54;"></span></div><div>&nbsp;<span  
style="color: #d35400;">digitalWrite</span><span style="color: #434f54;"></span><span  
style="color: #d35400;">ledPin</span>[i], HIGH<span style="color: #434f54;"></span>  
#434f54;"></span></div><div>&nbsp;<span style="color: #728e00;">for</span> <span  
style="color: #434f54;"></span><span style="color: #00979d;">int</span> i = <span style="color:  
#005c5f;">0</span>; i &lt; <span style="color: #005c5f;">4</span>; i++<span style="color: #434f54;"></span>  
#434f54;"></span> <span style="color: #434f54;"></span></div><div>&nbsp;<span  
style="color: #d35400;">digitalWrite</span><span style="color: #434f54;"></span><span  
style="color: #d35400;">ledPin</span>[i], HIGH<span style="color: #434f54;"></span>  
#434f54;"></span></div><div>&nbsp;<span style="color: #728e00;">for</span> <span  
style="color: #434f54;"></span><span style="color: #00979d;">int</span> i = <span style="color:  
#005c5f;">0</span>; i &lt; <span style="color: #005c5f;">100</span><span style="color:  
#434f54;"></span><span style="color: #95a5a6;"> // Delay 0.1 detik</span></div><div>&nbsp;<span  
style="color: #728e00;">for</span> <span style="color: #434f54;"></span><span style="color:  
#00979d;">int</span> i = <span style="color: #005c5f;">0</span>; i &lt; <span style="color:
```

```

style="color: #005c5f;">4</span>; i++<span style="color: #434f54;"></span> <span style="color:
#434f54;">{</span></div><div>&nbsp; &nbsp; &nbsp; <span style="color:
#d35400;">digitalWrite</span><span style="color: #434f54;"></span><span style="color:
#d35400;">ledPin</span>[i], LOW<span style="color: #434f54;"></span></div><div>&nbsp; &nbsp; &nbsp;
<span style="color: #434f54;"></span></div><div>&nbsp; &nbsp; &nbsp; <span style="color:
#d35400;">delay</span><span style="color: #434f54;"></span><span style="color:
#005c5f;">100</span><span style="color: #434f54;"></span><span style="color: #95a5a6;"> //
Delay 0.1 detik</span></div><div>&nbsp; &nbsp; <span style="color: #434f54;"></span> </div><div><span
style="color: #95a5a6;">&nbsp; &nbsp; // Matikan semua LED jika tidak ada tombol yang
ditekan</span></div><div>&nbsp; &nbsp; <span style="color: #728e00;">else</span> <span style="color:
#434f54;">{</span></div><div>&nbsp; &nbsp; &nbsp; <span style="color: #728e00;">for</span> <span
style="color: #434f54;"></span><span style="color: #00979d;">int</span> i = <span style="color:
#005c5f;">0</span></div><div><span style="color: #005c5f;">5</span></div><div><span style="color:
#434f54;"></span><span style="color: #434f54;">{</span></div><div>&nbsp; &nbsp; &nbsp; &nbsp; <span
style="color: #d35400;">digitalWrite</span><span style="color: #434f54;"></span><span
style="color: #d35400;">ledPin</span>[i], LOW<span style="color:
#434f54;"></span></div><div>&nbsp; &nbsp; &nbsp; <span style="color:
#434f54;"></span></div><div>&nbsp; &nbsp; <span style="color: #434f54;"></span></div><br
/><div><span style="color: #434f54;"></span></div><br /></div></div><div><br /></div></div><p
style="text-align: left;"><span style="font-family: times, times new roman, serif;"></span></p><div
style="text-align: left;"><b style="font-family: times, &quot;times new roman&quot;; serif;">5.
Kondisi </b><span style="font-family: times, &quot;times new roman&quot;; serif;">

```

```

</span><a name="Kondisi" style="font-family: times, &quot;times new roman&quot;;
serif;"></a><span style="font-family: times, &quot;times new roman&quot;; serif;">

```

```

</span><a href="#home" style="font-family: times, &quot;times new roman&quot;;
serif;">[Kembali]</a></div><div><br /></div><div style="text-align: left;"><i><b>Percobaan 1 Kondisi
4</b></i><br /></div>1 button menghidupkan 5 LED, 2 button menghidupkan 4 LED
blink</div></div><div style="text-align: left;"><br /></div><div><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>6. Video Simulasi
</b>

```

```

<a name="Simulasi"></a>

```

```

<a href="#home">[Kembali]</a></span></span></div><div><span style="font-family:
&quot;times&quot;; , &quot;times new roman&quot;; , serif;"><br /></span></div><div><div
class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both;
text-align: center;"><br /></div><br /></div><div class="separator" style="clear: both; text-align:
center;"><object class="BLOG_video_class" contentid="4a24522dc3c10a8f" height="266"
id="BLOG_video-4a24522dc3c10a8f" width="320"></object></div><br /><br /></div><div><div
class="separator" style="clear: both; text-align: center;"><br /></div></div><div><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>7. Download File </b>

```

```

<a name="Download"></a>

```

```

<a href="#home">[Kembali]</a></span></span><br />

```

HTML

File Rangkaian

Video Percobaan

Listing Program

Datasheet Arduino

Datasheet Button