

```
<a name="home"></a>
<br />
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    <a href="http://andromeda211024.blogspot.com">[KEMBALI KE MENU
SEBELUMNYA]</a>
</div>
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<center>
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auto; padding: 10px; text-align: center; width: 330px;">
    <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 Demo</a>
    </div>
    <div style="text-align: left;">
        <a href="#Prosedur">7. Soal Analisa</a>
    </div>
    <div style="text-align: left;">
        <a href="#Download">8. Download File</a><br />
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serif;"><b>
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1. Prosedur

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

1. Rangkai rangkaian pada alat sesuai dengan modul.
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 rangkaian.

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<div data-darkreader-inline-bgcolor="" data-darkreader-inline-border-bottom="" data-darkreader-inline-border-left="" data-darkreader-inline-border-right="" data-darkreader-inline-border-top="" style="--darkreader-inline-bgcolor: #191b1c; --darkreader-inline-border-bottom: initial; --darkreader-inline-border-left: initial; --darkreader-inline-border-right: initial; --darkreader-inline-border-top: initial; background-color: white; border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">
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2. Hardware dan Diagram Blok

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<a name="Hardware"></a>
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<a href="#home">[Kembali]</a></span></span>
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</div>
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    <div class="separator" style="clear: both; text-align:
center;"><br /></div>
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justify;"><div style="background-color: white; color: #222222; font-family: Arial, Tahoma,
Helvetica, FreeSans, sans-serif; text-align: start;"><div style="text-align: left;"><span
style="font-family: times, 'times new roman', serif;"><br /></span><span
style="font-family: times, 'times new roman', serif;">1. Arduino
Uno</span></div><div><div class="separator" style="clear: both; text-align: center;"><a
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3. Motor DC</div><div>
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roman&quot; , serif;"><span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif; font-size: small;"><b>3. Rangkaian Simulasi dan Prinsip Kerja </b>
<a name="Rangkaian"></a>
<a href="#home">[Kembali]</a></span></span>
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        <span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif;"><b>Prinsip Kerja :</b></span>
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    <div>
        <div style="text-align: justify;">
            &nbsp;&nbsp;&nbsp;<span style="font-family:
inherit;">&nbsp;&nbsp;&nbsp;</span><span><span>Pada rangkaian percobaan, keypad terhubung ke
arduino sebagai input, dan motor sebagai output.&nbsp;&nbsp;&nbsp;</span><span><span
style="background-color: white; color: #222222;">mikrokontroler akan melakukan scanning
terus menerus ke key, sampai key ditekan, maka scan akan terhenti dan mikrokontroler
akan melakukan identifikasi posisi dari key dengan pembacaan RnCb ketika salah satu key
ditekan. Lalu arduino akan memproses inputan pada key dengan kodingan yang telah
ditetapkan dan akan mengirimkan data ke motor sebagai
output.</span><span><span>&nbsp;&nbsp;&nbsp;Saat key pada key ditekan maka akan mempengaruhi
sudut pada motor sesuai dengan key yang ditekan, hal ini dipengaruhi oleh PWM yang
diberikan oleh mikrokontroler ke motor, PWM ini telah diatur oleh library motor servo pada
arduino.</span></span></span></div></div><div style="text-align:
justify;"><span><span><span><br /></span></span></span></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>4. Flowchart dan Listing Program </b>
        <a name="Flowchart"></a>
        <a href="#home">[Kembali]</a></span></span>
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    <p style="text-align: left;">
        <b style="font-family: times, &quot;times new roman&quot;,
serif;">Flowchart :</b>
    </p>
    <div>
        <span style="font-family: &quot;times&quot; , &quot;times new
roman&quot; , serif;">
        <p style="font-family: &quot;Times New Roman&quot;;">
            <span style="font-family: times, times new roman,
serif;"></span>
        </p>
        <div class="separator" style="clear: both; font-family: &quot;Times
New Roman&quot;; text-align: center;">

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```
#d35400;">colPins</span>[numCols] = <span style="color: #434f54;">{</span><span style="color: #005c5f;">5</span>, <span style="color: #005c5f;">4</span>, <span style="color: #005c5f;">3</span><span style="color: #434f54;">}</span>;<span style="color: #95a5a6;"> // Columns 0 to 2</span></div><div>Keypad keypad = <span style="color: #d35400;">Keypad</span><span style="color: #434f54;">(</span><span style="color: #d35400;">makeKeymap</span><span style="color: #434f54;">(</span>keys<span style="color: #434f54;">)</span>, rowPins, colPins, numRows, numCols<span style="color: #434f54;">)</span>;</div><div><span style="color: #00979d;">void</span> <span style="color: #d35400;">setup</span><span style="color: #434f54;">(</span><span style="color: #434f54;">{</span></div><div><span style="color: #d35400;">servoMotor</span>.<span style="color: #d35400;">attach</span><span style="color: #434f54;">(</span><span style="color: #434f54;">servoPin<span style="color: #434f54;">)</span></div><div><span style="color: #d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span style="color: #005c5f;">90</span><span style="color: #434f54;">)</span>;<span style="color: #95a5a6;"> // Initial position</span></div><div><span style="color: #d35400;">Serial</span>.<span style="color: #d35400;">begin</span><span style="color: #434f54;">(</span><span style="color: #005c5f;">9600</span><span style="color: #434f54;">)</span>;</div><div><span style="color: #434f54;">}</span></div><div><span style="color: #00979d;">void</span> <span style="color: #d35400;">loop</span><span style="color: #434f54;">(</span><span style="color: #434f54;">{</span></div><div><span style="color: #00979d;">char</span> key = <span style="color: #d35400;">keypad</span>.<span style="color: #d35400;">getKey</span><span style="color: #434f54;">(</span><span style="color: #728e00;">if</span> <span style="color: #434f54;">(</span>key != NO_KEY<span style="color: #434f54;">)</span> <span style="color: #434f54;">{</span></div><div><span style="color: #d35400;">Serial</span>.<span style="color: #d35400;">println</span><span style="color: #434f54;">(</span>key<span style="color: #434f54;">)</span>;</div><div><span style="color: #95a5a6;"> // Perform actions based on the key pressed</span></div><div><span style="color: #728e00;">switch</span> <span style="color: #434f54;">(</span>key<span style="color: #434f54;">)</span> <span style="color: #434f54;">{</span></div><div><span style="color: #728e00;">case</span> '1':</div><div><span style="color: #95a5a6;"> // Move servo to position 0 degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span style="color: #005c5f;">0</span><span style="color: #434f54;">)</span>;</div><div><span style="color: #728e00;">break</span>;</div><div><span style="color: #728e00;">case</span> '2':</div><div><span style="color: #95a5a6;"> // Move servo to position 45 degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span style="color: #005c5f;">45</span><span style="color: #434f54;">)</span>;</div><div><span style="color: #728e00;">break</span>;</div><div><span style="color: #728e00;">case</span> '3':</div><div><span style="color: #95a5a6;"> // Move servo to position 90 degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span style="color: #005c5f;">90</span><span style="color: #434f54;">)</span>;</div><div><span style="color: #728e00;">break</span>;</div><div><span style="color: #728e00;">case</span>
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#728e00;">case</span> '4':</div><div><span style="color: #95a5a6;">// Move servo to
position 135 degrees</span></div><div><span style="color:
#d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span
style="color: #434f54;">(</span><span style="color: #005c5f;">135</span><span
style="color: #434f54;">)</span>;</div><div><span style="color:
#728e00;">break</span>;</div><div><span style="color: #728e00;">case</span>
'5':</div><div><span style="color: #95a5a6;">// Move servo to position 180
degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span
style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span
style="color: #005c5f;">180</span><span style="color:
#434f54;">)</span>;</div><div><span style="color:
#728e00;">break</span>;</div><div><span style="color: #728e00;">case</span>
'6':</div><div><span style="color: #95a5a6;">// Move servo to position 135
degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span
style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span
style="color: #005c5f;">135</span><span style="color:
#434f54;">)</span>;</div><div><span style="color:
#728e00;">break</span>;</div><div><span style="color: #728e00;">case</span>
'7':</div><div><span style="color: #95a5a6;">// Move servo to position 90
degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span
style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span
style="color: #005c5f;">90</span><span style="color: #434f54;">)</span>;</div><div><span
style="color: #728e00;">break</span>;</div><div><span style="color:
#728e00;">case</span> '8':</div><div><span style="color: #95a5a6;">// Move servo to
position 45 degrees</span></div><div><span style="color:
#d35400;">servoMotor</span>.<span style="color: #d35400;">write</span><span
style="color: #434f54;">(</span><span style="color: #005c5f;">45</span><span
style="color: #434f54;">)</span>;</div><div><span style="color:
#728e00;">break</span>;</div><div><span style="color: #728e00;">case</span>
'9':</div><div><span style="color: #95a5a6;">// Move servo to position 0
degrees</span></div><div><span style="color: #d35400;">servoMotor</span>.<span
style="color: #d35400;">write</span><span style="color: #434f54;">(</span><span
style="color: #005c5f;">0</span><span style="color: #434f54;">)</span>;</div><div><span
style="color: #728e00;">break</span>;</div><div><span style="color:
#728e00;">default</span>:</div><div><span style="color:
#728e00;">break</span>;</div><div><span style="color:
#434f54;">}</span></div><div><span style="color: #434f54;">}</span></div><div><span
style="color: #434f54;">}</span></div></div></div>
<div><br /></div>
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</div>
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<span style="font-family: times, times new roman, serif;"></span>
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<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;,
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Motor servo biasanya dikendalikan dengan PWM untuk menentukan arah sudut yang akan dituju oleh motor servo. Karena dengan PWM, atay mengatur lama waktu on/off, maka akan menghasilkan keluaran pada motor servo sesuai dengan lama waktu on/off, dan lama waktu on/off tersebut memungkinkan untuk mengontrol posisi motor servo

2. Bagaimana cara motor servo bisa bergerak sesuai arah yang ditekan pada keypad. Nilai apa yang diberikan oleh keypad pada motor servo?

Jawab : Karena keypad terhubung terlebih dahulu ke mikrokontroler, sehingga keypad berfungsi sebagai input dan motor servo sebagai output. Saat keypad ditekan, lalu mengkonversinya menjadi PWM, hal ini diatur oleh library motor servo. Kemudian hasil PWM yang diproses sesuai kodingan akan dikirim ke motor servo. Kemudian hasil PWM yang diproses sesuai kodingan akan dikirim ke motor servo, sehingga motor servo bergerak ke posisi sesuai PWM yang dikirimkan.

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&quot;times new roman&quot; , serif; font-size: small;"><b>8. Download File </b>
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&quot;times&quot; , &quot;times new roman&quot; , serif;">HTML<span><a
href="https://docs.google.com/document/d/1X8SDj7i9bFLXGAG6djHCnAaJnrv2D9ogVru9IPf
aHTA/edit?usp=sharing">Download</a></span></span></div><div><span
style="font-family: &quot;times&quot; , &quot;times new roman&quot; , serif;">Video
Percobaan<span>&nbsp;<a
href="https://www.youtube.com/watch?v=ANoEGhnUI7Q">Download</a></span></span>
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Listing Program Download

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Datasheet Arduino Download</div><div><div>Datasheetey Keypad Download
Datasheet Servo motor Download</div></div></div></div></div>

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