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<div style="text-align: center;"><a
href="https://syarif213034.blogspot.com/2023/08/praktikum-uc-1.html"><span style="font-family:
times;">[KEMBALI KE MENU SEBELUMNYA]</span></a></div><div style="text-align:
center;"><span style="font-family: times;"><br /></span></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;">

<span style="font-family: times;"><b><a name="home">DAFTAR ISI</a></b>

<br />

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

<a href="#P"><span style="font-family: times;">1. Prosedur</span></a></div>

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

<a href="#R"><span style="font-family: times;">2. Rangkaian Simulasi dan Prinsip
Kerja</span></a></div>

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

<a href="#FL"><span style="font-family: times;">3. Flowchart dan Listing
Program</span></a></div>

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

<a href="#K"><span style="font-family: times;">4. Kondisi</span></a></div>

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

<a href="#VS"><span style="font-family: times;">5. Video Simulasi</span></a></div>

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

<a href="#L"><span style="font-family: times;">6. Download File</span></a></div></div><h3
style="text-align: justify;"><b style="text-align: left;"><span style="font-family: times; font-size:
small;"><a name="P">1. Prosedur</a></span>&nbsp;<a
href="#home">[Kembali]</a></span></b></h3><div><span style="font-family: times; text-align:
left;"><div style="font-weight: bold; text-align: justify;"><b style="text-align: left;"><ul
style="font-weight: 400;"><li><span style="border: 0px; box-sizing: border-box; margin: 0px;
padding: 0px;">Rangkai semua komponen&nbsp;</span></li><li>Buat program di aplikasi arduino
IDE</li><li>Setelah selesai masukkan program ke arduino&nbsp;</li><li>Jalankan program pada
simulasi dan cobakan sesuai kondisi</li></ul></b></div><div><b><span><a name="R">2.
Rangkaian Simulasi dan Prinsip Kerja&nbsp;</a></span>&nbsp;<a
href="#home">[Kembali]</a></span></b></div><div><ul style="text-align: left;"><li>Rangkaian
Simulasi&nbsp;</li></ul><div class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhmJ-TOW5rWq3xi415GJER2
68tbQPC1N_8RoUQKp7DK_nsGVH-qZr836jY2PQl6-mq6SoQ4Wr7uodvSUclj0E9obo8ORUlbqaZf
qnQEP_-CZswNDZi_QNKGUZXa8IE_2tw1kGwwxuE6-Po4i2ZwOUGWHPP181cxxCSbCO16DrD
ufV9aZMA8ugyPZ4Ouz7-e/s1009/Screenshot%202024-03-18%20065502.png" style="margin-left:
1em; margin-right: 1em;"></a></div><br /></div><ul style="text-align: left;"><li>Prinsip

Kerja</li></ul></div></div><div>Pada percobaan 4 Kondisi 1 ini diminta untuk keypad 1 hingga 9 memberikan PWM 0-180 dengan jarak PWM antar key 20. Disini kita menggunakan keypad sebagai inputan dan output berupa motor servo yang dimana seperti yang diketahui motor servo itu bergerak secara presisi berdasarkan sudutnya dengan menggunakan input berupa PWM nya. Nah percobaan kali ini kita akan mengatur sudut nya sesuai yang ada pada kondisi.</div><div><div class="separator" style="clear: both; text-align: center;"><br /></div></div><div><span style="text-align: left;"><span style="text-align: left;"><div style="font-weight: bold; text-align: justify;"><b style="text-align: left;"><span><span><a name="FL">3. Flowchart dan Listing Program</a></span>&nbsp;<a href="#home">[Kembali]</a></span></b></div><span style="text-align: left;"><div class="separator" style="clear: both; text-align: left;"><ul style="text-align: left;"><li>Flowchart</li></ul><div><br /></div><ul style="text-align: left;"><li>Listing Program</li></ul><div><div style="background-color: white; color: #4e5b61; font-family: Consolas, &quot;Courier New&quot;; monospace; font-size: 14px; line-height: 19px; white-space: pre;"><div><span style="color: #728e00;">#include</span> <span style="color: #005c5f;"><span><span><a href="#home">[Kembali]</a></span></span></span></div><div><span style="color: #728e00;">#include</span> <span style="color: #005c5f;"><span><span><a href="#home">[Kembali]</a></span></span></span></div><br /><div>Servo servoMotor;</div><div><span style="color: #00979d;">const</span> <span style="color: #00979d;">int</span> servoPin = <span style="color: #005c5f;">11</span>;<span style="color: #95a5a6;"> // PWM pin for servo</span></div><div><span style="color: #00979d;">const</span> <span style="color: #00979d;">int</span> numRows = <span style="color: #005c5f;">4</span>;<span style="color: #95a5a6;"> // Number of rows in keypad</span></div><div><span style="color: #00979d;">const</span> <span style="color: #00979d;">int</span> numCols = <span style="color: #005c5f;">3</span>;<span style="color: #95a5a6;"> // Number of columns in keypad</span></div><div><span style="color: #00979d;">char</span> <span style="color: #d35400;">keys</span>[numRows][numCols] = <span style="color: #434f54;">{</span><span style="color: #434f54;">{</span><span style="color: #434f54;">{'1', '2', '3', '4', '5', '6', '7', '8', '9', '\*', '0', '#'}</span><span style="color: #434f54;">,</span><span style="color: #434f54;">{</span><span style="color: #434f54;">{'>

[illegible]

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#728e00;">break;</div><div>case
'8:'</div><div>// Move servo to position 45
degrees</div><div>servoMotor. <span style="color:
#d35400;">write(<span style="color:
#005c5f;">160);</div><div><span style="color:
#728e00;">break;</div><div>case
'9:'</div><div>// Move servo to position 0
degrees</div><div>servoMotor. <span style="color:
#d35400;">write(<span style="color:
#005c5f;">180);</div><div><span style="color:
#728e00;">break;</div><div><span style="color:
#728e00;">default</div><div><span style="color:
#728e00;">break;</div><div>}</div><div>}</div><div><span style="color:
#434f54;">}</div></div></div></div></div><p style="text-align: justify;"><b
style="text-align: left;">4. Kondisi [Kembali]</p><div style="text-align: justify;"> <p style="text-align: justify;"><b style="text-align:
left;"></p><div style="text-align: -webkit-center;"><span style="text-align:
left;"><p style="text-align: justify;"><b style="text-align: left;">5. Video Simulasi [Kembali]</p><div class="separator" style="clear: both; text-align:
center;"><object class="BLOG_video_class" contentid="830f94edc314bfb2" height="266"
id="BLOG_video-830f94edc314bfb2" width="320"></object></div><div class="separator"
style="clear: both; text-align: center;">
</div><p></p><div><b style="text-align: left;"><div
style="font-weight: 400; text-align: -webkit-center;"><p
style="text-align: justify;"><b style="text-align: left;">6. Download
File [Kembali]</p></div></div></s
pan></div></div></div><div style="text-align: left;"><b
style="text-align: justify;"><span style="font-weight:
400;">HTML <a
href="https://drive.google.com/uc?export=download&id=1o0KOapdfGaUkVWE4R2BWdXE9h
e_-WxZ" style="font-weight: 400;">klik disini</div><div style="text-align:
left;">-
Simulasi <a
href="https://drive.google.com/file/d/1lu6sGL-KzcOmNy_whYtXr8vr3_EsI7TG/view?usp=drive_lin
k" style="text-align: justify;">klik disini
</div><div style="text-align: left;">- Gambar
Simulasi <a
href="https://drive.google.com/file/d/1akyehPniJ013ucUM4NyX7vQpJEatzmrk/view?usp=drive_lin
k" style="text-align: justify;">klik disini<a
href="https://drive.google.com/uc?export=download&id=1ByAffixHNGmMU73sYTtyHrKvxL
K3sBY" style="text-align: justify;">
- Video
Simulasi <a
href="https://drive.google.com/file/d/1ae3v9pyKrhhM0j51aMRCXhh-qOdX1OK9/view?usp=drive_li
nk" style="text-align: justify;">klik disini
- Listing
Program <a
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[https://drive.google.com/file/d/1X2WVQg03jRsH6m3YrOsBR0F8ThzFYjiC/view?usp=drive\\_link](https://drive.google.com/file/d/1X2WVQg03jRsH6m3YrOsBR0F8ThzFYjiC/view?usp=drive_link) style="text-align: justify;">klik disini</a></span></div></center>