

```
<div style="text-align: center;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><a
```

```
href="https://muhammadmirzaavicena211018.blogspot.com/2024/03/modul-1.html" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">[KEMBALI KE MENU SEBELUMNYA]</span></a></div><div
```

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style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><span style="font-family: times; font-size: medium;"><br /></span></div><center style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="background-color: white; border: 2px dashed rgb(23, 128, 221); box-sizing: border-box; height: 240px; margin: 0px; overflow: auto; padding: 10px; width: 330px;"><span style="font-family: times; font-size: medium;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">
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<a name="home" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; transition: all 0.3s ease 0s;">DAFTAR ISI</a></b><br style="box-sizing: border-box;" /></span><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#prosedur" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">1. Prosedur</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#hardware" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">2. Hardware dan Diagram Blok</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#rangkaian" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">3. Rangkaian Simulasi dan Prinsip Kerja</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#flowchart" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">4. Flowchart dan Listing Program</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#kondisi" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">5. Kondisi</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
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<a href="#demo" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"><span style="font-family: times; font-size: medium;">6. Video Demo</span></a></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">
```

[7. Download File](#)

Percobaan III

** Dip switch dan Dot Matrix**

P

[prosedur](#)

1. [Prosedur](#) [\[Kembali\]](#)

Rangkailah seperti rangkaian berikut

- Buka Arduino IDE dan masukan listing program**
- Upload program ke arduino**
- Variasikan tombol yang ditekan dan amati keluarannya pada LCD**

Buka Arduino IDE dan masukan listing program

Upload program ke arduino

Variasikan tombol yang ditekan dan amati keluarannya pada LCD

KhJafj_xWmQDfucdVD7DAUi2FILLu4FU1F3WosYV-oG_YvhwbbAk-zAiQBw7aA8AD3GoMr
QO8-XpwlldiD6o8VpCkLY5cifPnd/s320/t-098-1.jpg" width="320" /></div><br
</div><div> 3. Dot Matrix<br
</div><div><div class="separator" style="clear: both;
text-align: center;">
</div><div class="separator" style="clear: both; text-align:
center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjzsWGHGk4VfHW05jY
EZuXse-m5S4wPxrhKhcUCgyOmTfm71ZLdhuvLB1b-3fWWTQSaParbm2hFW9Ly99tGw9u
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61d27c6_700_487.jpg" style="margin-left: 1em; margin-right: 1em;"></div></div><div> 4.
Kabel jumper
</div><div><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgUbYr9dSof5j69YvFXF
RRtsFEWZ3TZvnw8qMK99dsjLGQFgsLhbD8J15akZGjHqkH4d1PVrCFjpLInvVAQWHlkQZa
ouHnVR7E_VL0YVAqDFoZ0cAAgbbpJ6aslfbJInRcP3pxBxsvoVmL9157fitQiBW60KRmld2O
ZORqHvl2NEjQR-r2F5RFmEkEfAPU/s320/jumper%20fm.jpg" style="margin-left: 1em;
margin-right: 1em;"></div><div class="separator" style="clear: both; text-align: center;"><br
</div> 5.
Breadboard</div><div><div
class="separator" style="clear: both; text-align: center;"><a
href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiZMwixnPgjFVezUlv5-3
HQff6D8005VbnyGAza404B6KJBANSnUSBqorMa_mgYtswG3gsfRrm2eMO8Hi3GwRqv3lr
H8BeiteFMAbXWIH1FbWs1dkoybjYPxfMaFxFJOZQfkeL9RhULJXyOI3gYpqx0w5G_5xmlJZ
DfhO3zuAEOJz1X9EyJAUDrmeXf-Wxc/s320/679813_439a59b9-284e-4573-949d-12ab0d5
d002a%20(1).jpg" style="margin-left: 1em; margin-right: 1em;"></div><div class="separator" style="clear: both;
text-align: center;"><br
</div></div><div><br
</div><div style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;">Diagram Blok:<br style="box-sizing: border-box;" /></div>

yang ditandai dengan led pada dot matrix akan menyala dan jika switch 2 aktif maka baris ke 2 aktif, begitu seterusnya untuk dip seterusnya dan barus matrix selanjutnya. akan tetapi jika dip mati (dalam keadaan off) maka baris pada matrix yang sesuai dengan dip switch juga akan mati

[flowchart](#)

4. Flowchart dan Listing Program

[Kembali](#)

Flowchart:



Listing Program:

```
#include <LedControl.h>
//Library untuk LED Dot Matrix
const int DIP_Pins[] = {13, 12, A0, A1, A2, A3, A4, A5}; // Pin DIP switch terhubung ke Arduino
LedControl lc=LedControl(2,3,4,1); // Pin DIN, CLK, LOAD (CS), dan jumlah Dot Matrix yang
dihubungkan ke Arduino
byte patterns[8] = {0, 0, 0, 0, 0, 0, 0, 0}; // Pola LED untuk ditampilkan
```


Matrix sesuai perintah.

</p><div style="border: 1px solid #597e00; padding: 5px; text-align: center;"><p style="border: 1px solid #597e00; padding: 5px; text-align: justify;"><b style="border: 1px solid #597e00; padding: 5px; text-align: left;">

6. Video Demo

[\[Kembali\]](#home)

</p><div class="separator" style="clear: both; text-align: center;"><iframe allowfullscreen="" class="BLOG_video_class" height="266" src="https://www.youtube.com/embed/tO2YvtRnQYE" width="320" youtube-src-id="tO2YvtRnQYE"></iframe><div class="separator" style="clear: both; text-align: center;">
<p style="border: 1px solid #597e00; padding: 5px;"></p><div style="border: 1px solid #597e00; padding: 5px;"><b style="border: 1px solid #597e00; padding: 5px;"><div style="border: 1px solid #597e00; font-weight: 400; margin: 0px; padding: 5px; text-align: center;"><p style="border: 1px solid #597e00; padding: 5px; margin: 0px 0px 1px; padding: 5px; text-align: justify;"><b style="border: 1px solid #597e00; padding: 5px; text-align: left;">

7. Download File

[\[Kembali\]](http://www.laboreldi.or.id/p/mikro-2023-modul-1-percobaan-4.html#home)

</p></div></div></div></div></div><div style="border: 1px solid #597e00; padding: 5px; text-align: left;"><b style="border: 1px solid #597e00; padding: 5px; text-align: justify;"><b style="border: 1px solid #597e00; padding: 5px;">□ HTML→ klik disini<br

Gambar Rangkaian [→](https://drive.google.com/file/d/1VtVWXBhD4B1V7xuWET99jgWCWPcQnXkF/view?usp=sharing) [klik disini](https://drive.google.com/uc?export=download&id=1ByAffixHNGmMU73sYTtqyHrKvxLK3sBY)

Video Demo [→](https://youtu.be/tO2YvtRnQYE?si=G1v77nsqhYobJYAC) [klik disini](https://docs.google.com/document/d/1FdOUntOWsAfeHzBFaVzjMy3l-Z9-xDuUI2oCQgFz-rl/edit?usp=sharing)

Listing Program [→](https://docs.google.com/document/d/1FdOUntOWsAfeHzBFaVzjMy3l-Z9-xDuUI2oCQgFz-rl/edit?usp=sharing)

Listing Program [klik disini](https://docs.google.com/document/d/1FdOUntOWsAfeHzBFaVzjMy3l-Z9-xDuUI2oCQgFz-rl/edit?usp=sharing)