

<p> [KEMBALI KE MENU SEBELUMNYA]</p><p style="background-color: white; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;"><br style="font-family: Cambria; font-size: 16.5px;" /></p><center style="background-color: white; color: #222222; font-family: Cambria; font-size: 16.5px;"><div style="border: 2px dashed rgb(23, 128, 221); height: 240px; overflow: auto; padding: 10px; width: 330px;">DAFTAR ISI
<div style="text-align: left;">1. Prosedur</div><div style="text-align: left;">2. Hardware dan Diagram Blok</div><div style="text-align: left;">3. Rangkaian Simulasi dan Prinsip kerja</div><div style="text-align: left;">4. FlowChart</div><div style="text-align: left;">5. Video Demo</div><div style="text-align: left;">6. Kondisi</div><div style="text-align: left;">7. Download File</div><div style="text-align: left;">
</div></center><div style="background-color: white; color: #38761d; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div style="background-color: white; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div style="background-color: white; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">PERCOBAAN 4 </div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">8 x Switch SPDT & LCD</div><div style="background-color: white; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div style="background-color: white; color: #38761d; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">
</div><p style="background-color: white; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">1. Prosedur [Kembali]</p><div style="background-color: white; color: #222222; font-family: Cambria; font-size: 16.5px;"><b style="font-family: georgia;">
</div><div style="background-color: white; color: #222222; font-family: Cambria; font-size: 16.5px;"><li style="margin: 0px 0px 0.25em; padding: 0px;">Rangkai semua komponen sesuai kondisi yang dipilih<li style="margin: 0px 0px 0.25em; padding: 0px;">Buat program di aplikasi arduino IDE<li style="margin: 0px 0px 0.25em; padding: 0px;">Setelah selesai masukkan program ke arduino (Verify and Upload)<li style="margin: 0px 0px 0.25em; padding: 0px;">Jalankan program pada simulasi dan cobakan sesuai dengan modul dan kondisi<li style="margin: 0px 0px 0.25em; padding: 0px;">Selesai</div><div style="color: #222222;"><div style="color: #741b47;">
</div><div><div style="background-color: white;"><div

style="font-family: Cambria; font-size: 16.5px;"><b style="font-family: georgia; font-size: medium;">2. Hardware dan Diagram Blok [Kembali]</div><div style="font-family: Cambria; font-size: 16.5px;">
</div><div style="font-family: Cambria; font-size: 13.2px;"><div class="separator" style="clear: both; text-align: center;"><div style="font-family: Roboto, Arial, Helvetica, sans-serif; font-weight: 400; text-align: left;">A. Hardware</div><div style="font-family: Roboto, Arial, Helvetica, sans-serif; font-size: 13px; font-weight: 400; text-align: left;"><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; color: #555555; text-align: center;"><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">1. LCD</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;"><div class="separator" style="clear: both; text-align: center;"></div>
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">2. Push Button</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;"><div class="separator" style="clear: both; text-align: center;"></div>

</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;">3. Arduino Uno</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align:

start;">
</div><div style="color: #222222; font-family: Cambria; font-size: 16.5px; text-align: start;"><div class="separator" style="clear: both; text-align: center;"></div></div></div>
<div class="separator" style="clear: both; color: #555555; text-align: center;">
</div><div style="font-family: Roboto, Arial, Helvetica, sans-serif; font-weight: 400; text-align: left;">B. Diagram Blok</div><div style="font-family: Roboto, Arial, Helvetica, sans-serif; font-weight: 400; text-align: left;">
</div><div style="color: #555555; font-family: Roboto, Arial, Helvetica, sans-serif; font-size: 13px; font-weight: 400; text-align: left;"><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both; text-align: center;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div></div></div></div>
</div><div style="font-family: Cambria; font-size: 16.5px;">3. Rangkaian Simulasi dan Prinsip kerja [Kembali]</div><div style="font-family: Cambria; font-size: 16.5px;">
</div><div style="font-family: Cambria; font-size: 16.5px;">A. Rangkaian Simulasi</div><div class="separator" style="clear: both; text-align: center;"></div>
<div style="font-family: Cambria; font-size:

16.5px;">B. Rangkaian Pratikum</div><div style="font-family: Cambria; font-size: 16.5px;">
</div><div class="separator" style="clear: both; font-family: Cambria; font-size: 16.5px; text-align: center;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both;"><div class="separator" style="clear: both; text-align: center;"></div>
<div class="separator" style="clear: both; text-align: center;">
</div></div>
</div></div></div></div></div><div style="font-family: Cambria; font-size: 16.5px;">
</div><div style="font-family: Cambria; font-size: 16.5px;">Prinsip Kerja </div><div style="font-family: Cambria; font-size: 16.5px;">
</div><div style="text-align: justify;"> Percobaan keenam ini adalah pengujian saklar SPDT dan tampilan LCD. Komponen-komponen yang terlibat dalam rangkaian ini meliputi Arduino Uno (ATMEGA328P-PU) sebagai mikrokontroler, saklar push button SPDT sebagai pemberi input, kabel jumper untuk koneksi elektrik, potensiometer, dan LCD 16x2 yang menunjukkan output dari input tombol yang diberikan.</div><div aria-description="" class="content" style="color: black;" tabindex="0"><div class="ac-container ac-adaptiveCard" streaming=""><div class="ac-textBlock"><p>Mekanisme kerja dari rangkaian ini didasarkan pada logika input yang diberikan ke mikrokontroler. Misalnya, ketika tombol push button berwarna merah ditekan, mikrokontroler menerima input logika 1 khusus untuk tombol tersebut, sementara input lainnya akan bernilai logika 0. Program Arduino telah diprogram sedemikian rupa sehingga ketika menerima input logika 1 dari tombol push button, output yang sesuai akan ditampilkan pada LCD. Sebagai contoh, jika tombol push button berwarna merah yang ditekan, maka LCD akan menunjukkan kata "MERAH". Program Arduino dirancang khusus untuk menampilkan nama warna dari tombol push button yang ditekan pada LCD. Potensiometer dalam rangkaian ini berfungsi untuk mengatur tingkat kontras pada LCD 16x2.</p></div></div></div><div aria-description="" class="content" style="color: black;" tabindex="0"><div></div></div><div style="text-align: justify;"> </div><div style="font-family: Cambria; font-size: 16.5px; text-align: justify;">
</div><div style="font-family: Cambria; font-size: 16.5px;">4. FlowChart [Kembali]</div><div><div class="separator" style="clear: both; font-family: Cambria; font-size: 16.5px; font-weight: bold; text-align: center;">
</div><b style="font-family: Cambria; font-size: 16.5px;">A. Listing Program
</div><div style="color: #4e5b61; font-family: Consolas, "Courier New"; monospace; font-size: 14px; white-space: pre;">#include <LiquidCrystal.h></div><div style="color: #4e5b61; font-family: Consolas, "Courier New"; monospace; font-size: 14px; white-space: pre;"><span style="color:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

style="color: #d35400;">print"Silahkan Tekan"</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> lcdsetCursor0, 1</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> lcdprint"Salah Satu SW"</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> </div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> else</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> lcdclear)</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> lcdsetCursor0, 0</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> lcdprint"Error"</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> </div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"> delay100 // Tambahkan penundaan agar tampilan tidak berubah terlalu cepat</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;"></div></div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;">
</div><div style="color: #4e5b61; font-family: Consolas, "Courier New";, monospace; font-size: 14px; white-space: pre;">
</div></div><div style="font-family: Cambria; font-size: 16.5px;">B. Flowchart</div><div style="font-family: Cambria; font-size: 16.5px;"><div class="separator" style="clear: both; text-align: center;">
</div>
<div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"></div>

<div class="separator" style="clear: both; text-align: center;">
</div></div><div class="separator" style="background-color: white; clear: both; font-family: Cambria; font-size: 16.5px; text-align: center;"><div style="text-align: left;"><span

style="font-size: 14.6667px; text-align: center; white-space-collapse: preserve;">
</div></div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;">5. Video Demo [Kembali]</div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;">
</div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;"><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="24176b4a8a15e7e1" height="266" id="BLOG_video-24176b4a8a15e7e1" width="320"></object></div>

</div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;">
</div><div style="background-color: white;"><div style="font-family: "Times New Roman"; font-size: 16.5px;">6. Kondisi [Kembali]</div><div style="font-family: "Times New Roman"; font-size: 16.5px;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="text-align: left;"> Menggunakan 8 Push Button untuk menampilkan nama warna push button yang ditekan pada LCD.</div></div></div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;"><div class="separator" style="clear: both; text-align: center;">
</div>
</div><div style="background-color: white; font-family: Cambria; font-size: 16.5px;">7. Download File [Kembali]</div><div><div style="background-color: white; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 16.5px;">
</div><div><div>Download HMTL <klik disini</div><div>Download Simulasi Rangkaian <klik disini</div><div>Download Video Demo <klik disini</div><div>Download Datasheet ARDUINO UNO <klik disini</div><div>Download Datasheet Switch SPDT<a

[](https://drive.google.com/file/d/1ztr7essQfzCJyqD3ThvmNpYEiMihbvMm/view?usp=sharing)[>klik disini](https://drive.google.com/file/d/1Mh205pY1NLStQvUEIE8k2Ihq1O2233Al/view?usp=sharing)

[>klik disini](https://drive.google.com/file/d/1K8JZiLCDqYjBpE341v4JgJBq4YwpADzs/view?usp=sharing)

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[>klik disini](https://drive.google.com/file/d/1K8JZiLCDqYjBpE341v4JgJBq4YwpADzs/view?usp=sharing)