

SENSORS & AUTOMATION

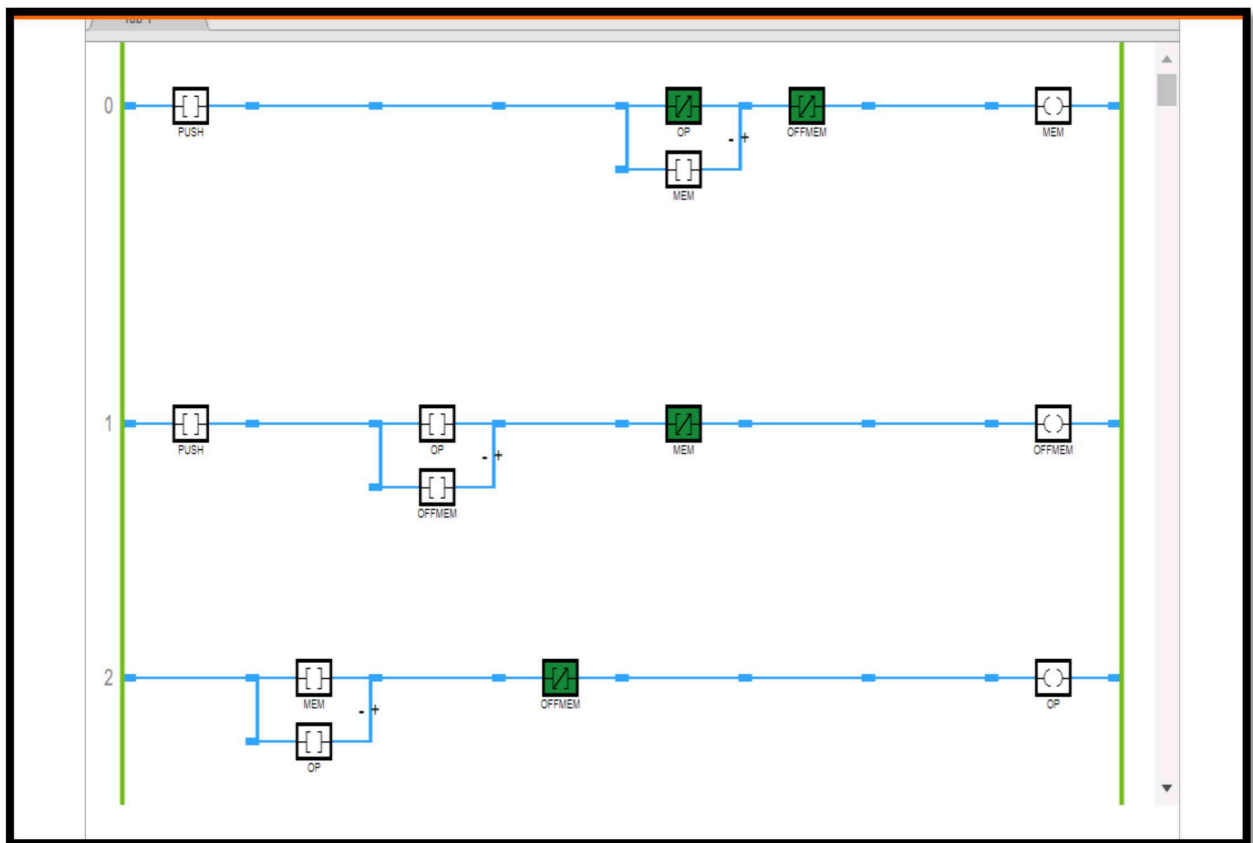
Experiment No:- 6: Ladder Diagram for On/OFF application.

❖ APPLICATIONS:

- 1) It can be used in decorative lights used in Diwali.
- 2) Nowadays even the lights used in homes have functionalities to change light from yellow to white which can be done using this.
- 3) Any place where random lighting is required can be achieved using this.

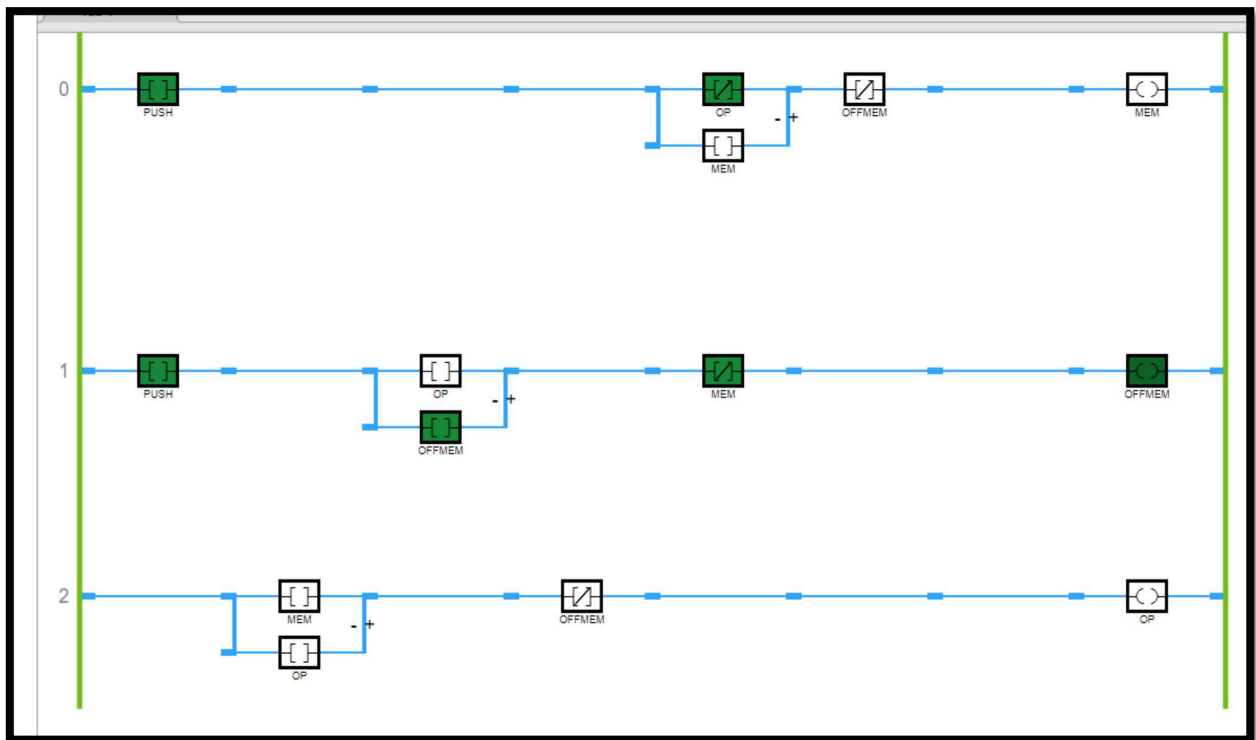
❖ ON/OFF SWITCH (2 PUSH BUTTONS)

- 1) When both are not toggled all outputs are OFF.

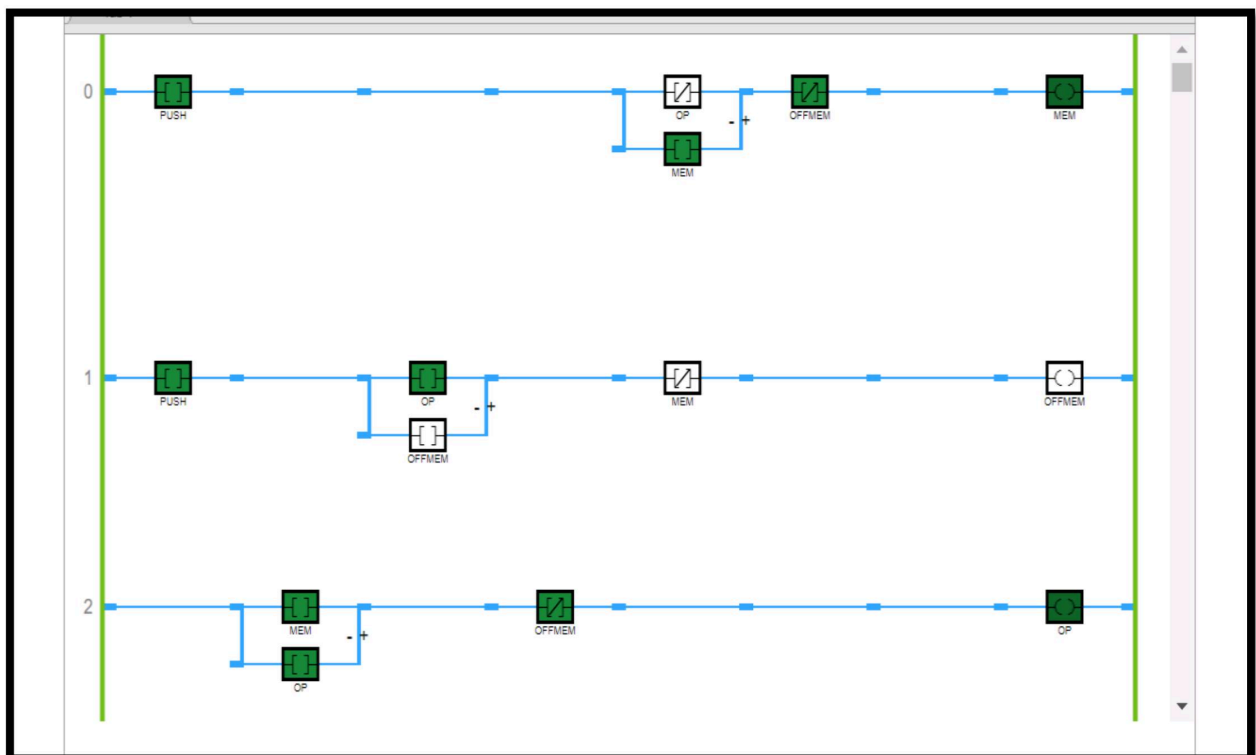


2) When both are toggled, we get 2 conditions.

a) One light is ON



b) Two lights are ON.



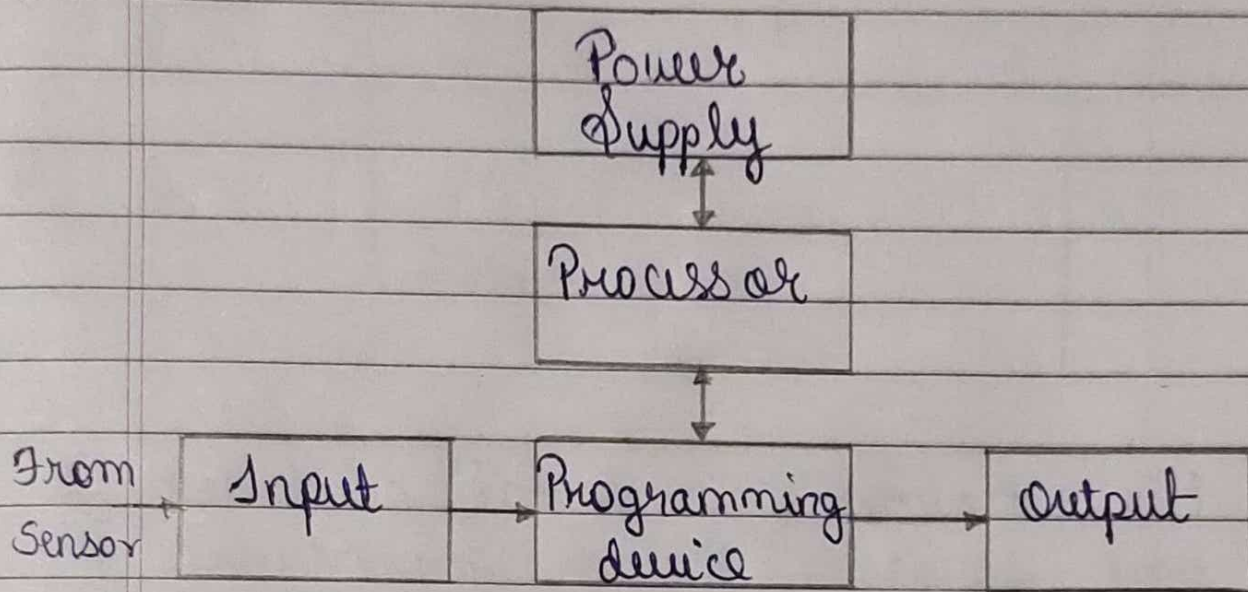
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Sensors and Automation Assignment no: 6

Q1. PLC block diagram, application and vendors of PLC.

→



• Applications :

1. Traffic Industry Signal
2. Automotive Industry
3. Paper Industry
4. Steel Industry
5. Chemical Industry
6. Glass Industry

• Vendors :

1. Siemens
2. Omron
3. Schneider

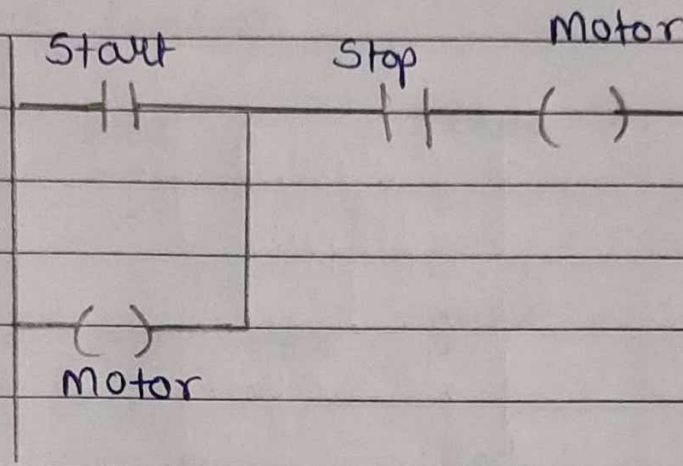
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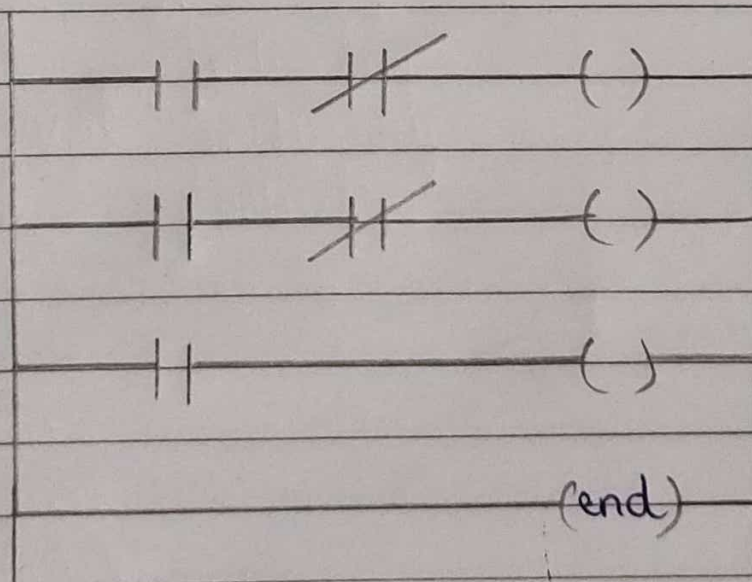
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What is holding contact in PLC

Q2. Holding contact in PLC is making
→ output high/low until we make
it low/high.



Q3. What is interlocking contact, with eg.
→ Interlocking makes state of two
mechanism or functions mutually
dependent on each other.
For Example: Sequential operation of
motors.



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Q4. Draw ladder program for following.
→ PB1 → only blue and green
PB1 and PB2 → Red
PB2 → Green

