IARE
INSTITUTE OF AERONAUTICAL ENGINEERING
(An Autonomous Institute affiliated to JNTUH, Hyderabad)
Dundigal, Hyderabad - 500 043

LABORATORY WORK SHEET

Name of the Student : MADKI SAI CHARAN

Class : CSM-'C' Semester : IST

Roll Number									
2	3	9	5	1	A	6	6	F	2

Course Code : AMED02 Course Name : Manufacturing practice

Name of the Course Faculty : Mr. V. Mahidhar reddy Faculty ID : IARE 10333

Exercise Number : 03 Week Number : 03 Date : 27 october 2023

DAY TO DAY EVALUATION:

Marks	Aim / Preparation	Algorithm / Procedure / Performance in the Lab	Source Code / Calculations and Graphs	Program Execution / Results and Error Analysis	Viva - Voce	Total
Max. Marks	4	4	4	4	4	20
Obtained	4	4	4	4	4	20

Signature of Faculty

START WRITING FROM HERE :

AIM : Give the series connection

MATERIALS REQUIRED :

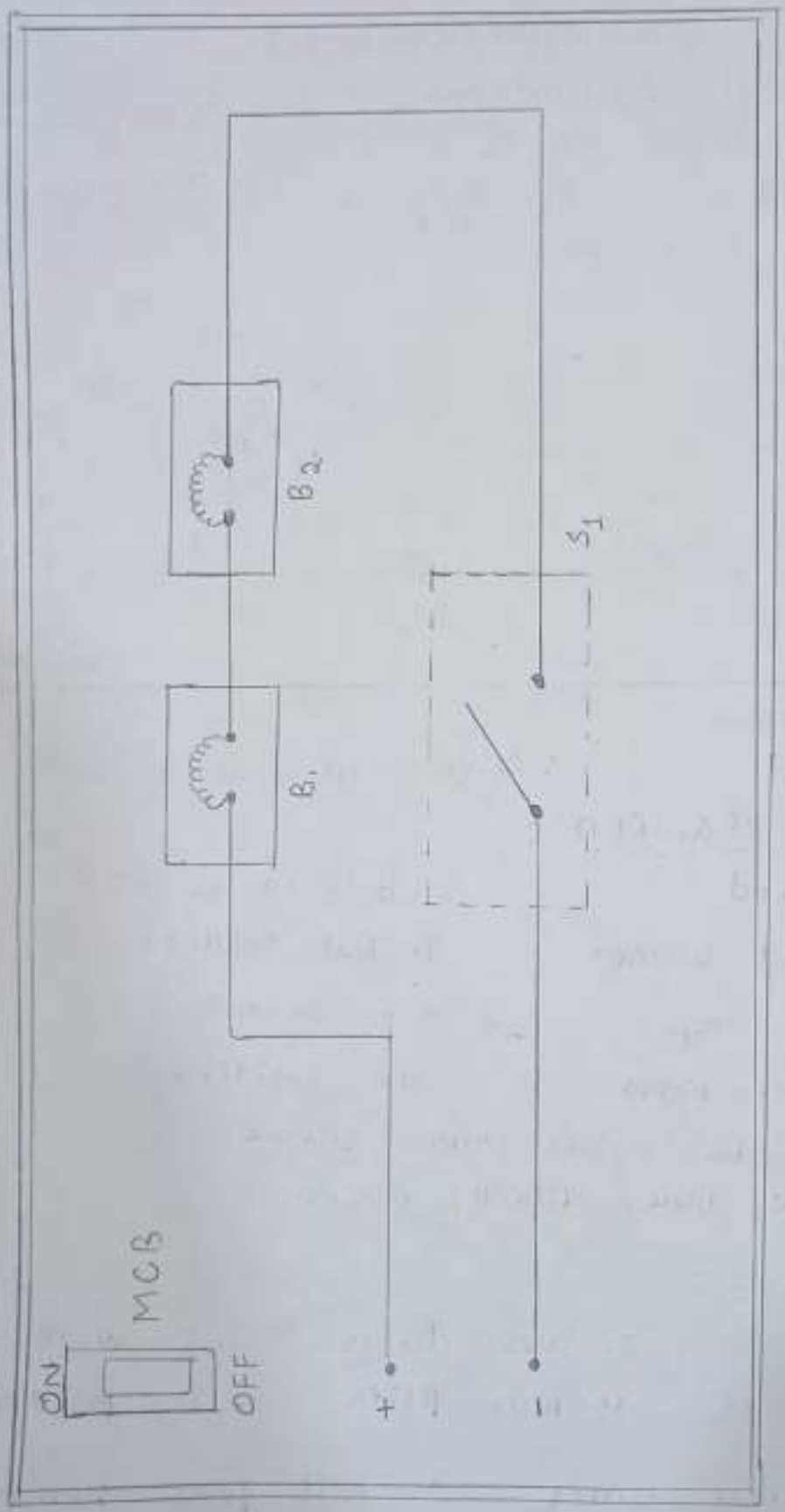
1. Panel board
2. Mini circuit breaker
3. Insulation tape
4. Wire connections
5. Colour code wires 1mm square Red, Yellow, Blue, Black, Green
6. Bulb of 40 watt's
7. Bulb holders
8. Screws
9. switches

Tools required :

1. Tester
2. cutting plier
3. Screw driver
4. Nose plier
5. Wire gauge
6. pocker
7. Diagonal wire cutter
8. Ball pene hammer.

ROLL NUMBER : 2-3951A66F2

Diagram :



240 volts

B = Bulb

S = Switch.

Sequence of operations :

1. Off the MCB.
2. Measuring the wires (1mm sq.).
3. Wire sleeving.
4. Wire connecting.
5. Finishing.

Procedure :

① Take a switch, 2 bulbs and one 1mm sq. wire of colour Red. Remove the surface of one end of wire using diagonal wire cutter.

② Connect the wire to the positive terminal of the panel board and connect it to the bulb holders where the bulb are holded. Make sure it is connected one after the other (series)

③ Connect this Red wire to one end of the switch and take another 1mm sq. wire of colour black which is connected from the other end of the switch and to the Negative terminal of the panel board.

④ place the MCB on the panel board (if it is not inserted).

⑤ Now, switch ON the MCB and note down the observations.

Safety Precautions:

① Wear Apron, shoes and Gloves.

② make sure the connection is in series.

③ make sure the bulbs are in working condition.

④ Make sure to keep the power supply off to avoid shocks before giving the connection.

⑤ If there are any wire breakages, use the insulation tapes wherever necessary.

Result: We observe that, After switching ON switch the MCB, both the bulbs glows. When the switch / the MCB is switched off, the bulb doesn't glow.