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: I SEM

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: 04 Week Number: 04 Date: 28 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 : STAIR CASE CONNECTION.

MATERIAL REQUIRED:

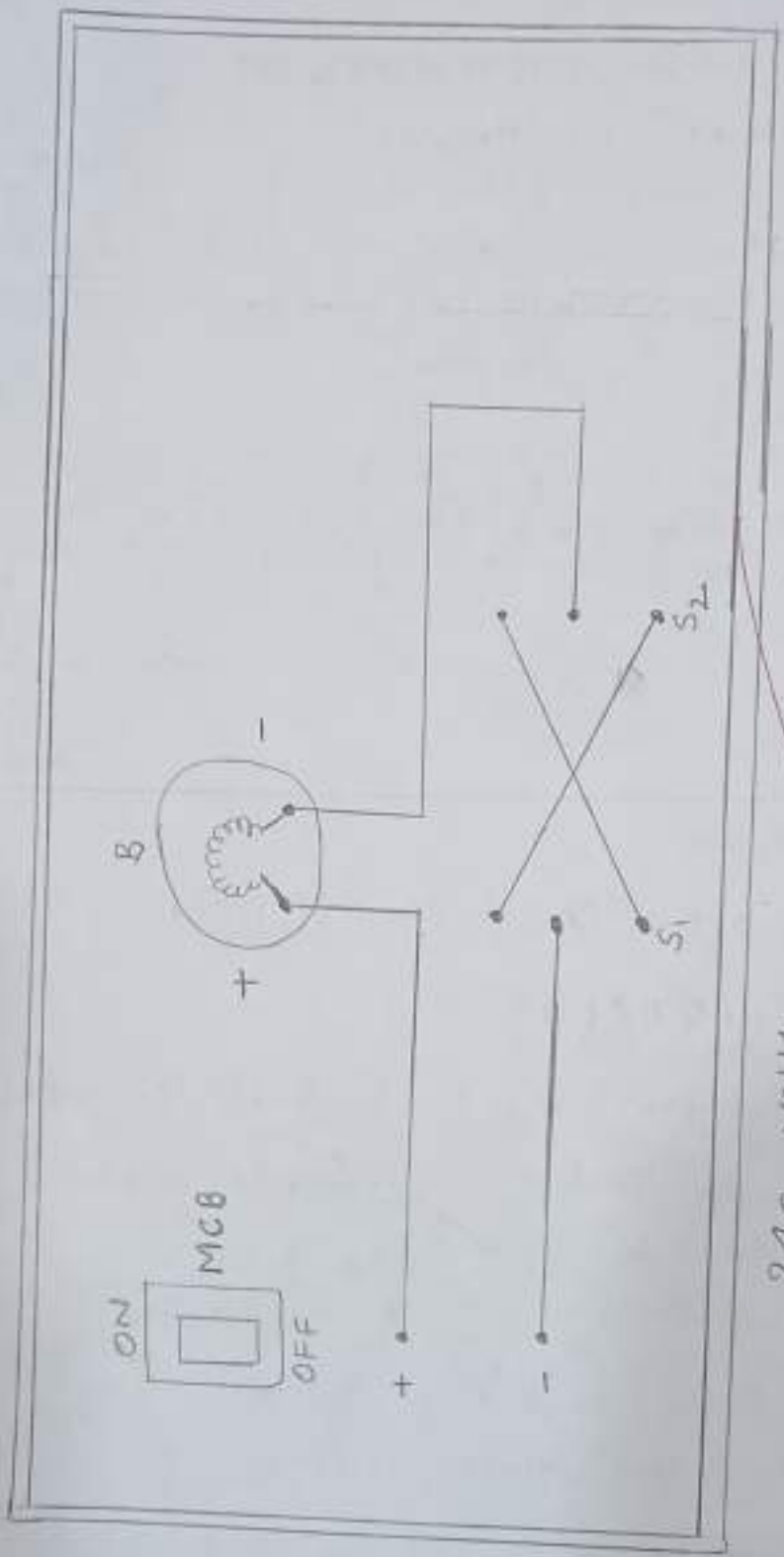
1. Panel board
2. Mini circuit breaker
3. Insulation tape
4. Wire connections
5. Colour code wires 1mm sqware Red, Yellow, Blue, Black, Green.
6. Bulb 40 watts
7. Bulb holders
8. Screws
9. Switches

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: 23951A66F2

Diagram:



ROLL NUMBER: 23951A66F2

Sequence of operations:

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

Procedure:

① Take two switches and 2 1mm Sq. wires of Red.

② Remove the surface layer of wire with help of diagonal wire cutter and straighten the thin wires with help of nose plier.

③ In switches remove the screws with help of screw driver and join the wires ~~and~~ to each other switches & Set back the screw with help of screw driver.

④ Take another 1 mm red & Black wire and connect it to 40 Watt Bulbs and it shall be on bulb holder

⑤ Make sure that the another red wire which is connected to either any one of the switches and black wire which is connected to bulb shall be connected to MCB. and then to Panel board and switch ON the MCB.

ROLL NUMBER : 23951A66F2

Safety precautions :

① Wear apron, wear shoes.

② Make sure to wear Gloves.

③ make sure there is a sufficient enough power supply.

④ Use the Insulation tapes necessary wherever at wire breakage connections.

Result :- We observe that when we on one switch and off one switch, the bulb dosnot glows : Besides, If we on the 2 switches, the connection is there and hence the bulb glows.