

Date:

EXPERIMENT NO. 1

AIM: Implement a circuit in logisim to display given decimal number in binary on to seven segment display.

Application Example: The thermostat's user interface includes a temperature display. You need to design a circuit that converts the binary temperature data from the microprocessor into a decimal format that can be displayed on the thermostat's screen.

TASK: i. BCD Number 0-9 should be displayed on single seven segment display.
ii. 2-Digit number (00-99) should be displayed on two seven segment display.

{Instructions:

1. Do not include instruction statement in your document. Instruction statements are written in red font
2. Nice arrangement, neat and clean documentation is expected from students

}

TABLES OF CALCULATIONS:

{Student need to show table of calculation. Keep it hand written. Keep sufficient space before taking print}

CIRCUITS:

{Student need to put screenshots of circuit designed by you including subcomponent circuit. Keep sufficient space before taking print}

Task-1

{Circuit should contain number, number must be your last three digit of roll number module by 9 ex: 23CE120 □ Circuit Should display: 3}

Task-2

{Circuit should contain number, number must be your last three digit of roll number module by 99 ex: 23CE120 □ Circuit Should display: 21}

OUTPUTS:

{Student need to put screenshots of outputs}

CONCLUSION:

{Student need to write conclusion over here. Keep it hand written. Keep sufficient space before taking print}