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**Branch: CSE-IOT Section/Group: IOT -B**

**Subject Name:Digital Electronics lab**

**AIM**

1. Design a Burglar alarm using AND gate such that the alarm should turn on whenever light falling on the LDR is disrupted.
2. Design a voting system such that a valid vote will be considered when a person sitting at a desk presses both the buttons. IN case only one button is pressed during the casting of the vote the vote will be considered as invalid.

Also a valid casted vote will be represented by green light and invalid casted vote will be represented by a red light.

1. Design an automatic heater controller using NOT gate such that at temperature below 10oC the heater should turn ON (the heater can be represented by using an LED).

**Task to be done**

*(Objective of the task to be explained)*

**Requirements**

*(Hardware and software requirements)*

**Circuit diagram/ Block diagram**

*(Insert circuit diagram here)*

**Simulation Results:**

*(Insert simulation results)*

**Concept used**

*(Point out the concepts used in order to design the solution)*

**Learning/ observation**

*(Observations made during the experiment and learnings for future reference)*

**Troubleshooting**

*(Problems encountered and how did you solved those)*