



## **Microcontroller Lab 7-B**

### **Objectives**

Application on temperature sensor.

### **Temperature Warning System**

Use the LM35 to measure the current air temperature and print the readings in Centigrade ( $^{\circ}\text{C}$ ) on the Serial monitor. If the temperature exceeds certain limit ( $30^{\circ}\text{C}$ ), a buzzer and an LED must turn ON.

**NOTE:** In order for you to increase the surrounding temperature, use any heating device that does not use flames. (Hairdresser for example or the laptop fan).

You should clearly show the reading on the serial monitor as well as the warning buzzer and LED turning ON when certain temperature is exceeded during the discussion.

### **Delivery Policy**

- Represent the requirements using components (buzzer, potentiometer, etc....) and code.
- Each group must submit a recorded video along with a report containing the code.
- **Due Date:** Saturday 29/11/2025
- **Late delivery** = -25% for each day of delay.

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**Good Luck**