



## **Arduino Assignment 4**

### **Temperature warning system**

- Use the LM35 to measure the current air temperature and print the readings in Centigrade (°C) on the serial monitor.
- Use the IR receiver (IR1383) to set a temperature threshold using your remote control. You should assume that the user will enter any number of digits and then click the “OK button” to set the threshold.
- If the temperature exceeds this threshold) , a buzzer and an LED must turn ON. If it drops below (threshold -1) then the LED and buzzer should stop.

#### **NOTE:**

- In order for you to increase the surrounding temperature use any heating device that doesn't use flames. (Hairdresser for example or any similar device).
- The video should clearly show the reading on the serial monitor as well as the warning buzzer and LED turning ON when a certain temperature is exceeded, also it should include your steps for setting the threshold.
- In order to read the value of each remote control button you have to use an external library:<https://github.com/z3t0/Arduino-IRremote>
- Please read the library documentation and how to use it since there will be a collision with the RobotIRremote library that comes already with the arduino software. One approach is to delete the RobotIRremote , the other is to simply rename the downloaded library files and includes to another name.

### **Delivery Policy**

- Same groups
- Represent the requirements using components (LM35, buzzer, IR receiver, etc....) and code.
- Each group must submit a recorded video along with a report containing the code
- Due Date: Sunday 21/11/2021 @ 13:59
- Late delivery = -25% for each day of delay.

**Good Luck**