

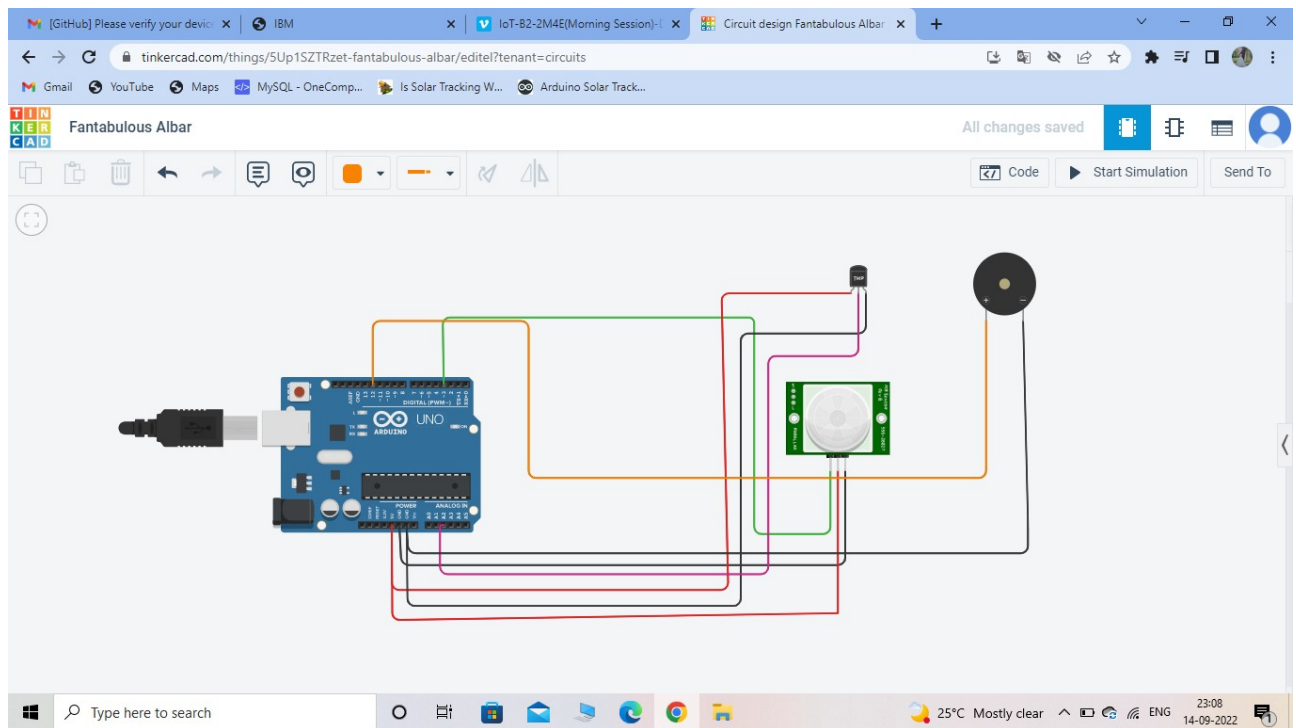
## ASSIGNMENT-I

Assignment Date	02 SEPTEMBER 2022
Student Name	Mr.P.Sarathi
Student Roll No	732919ECR116
Maximum Marks	2 Marks

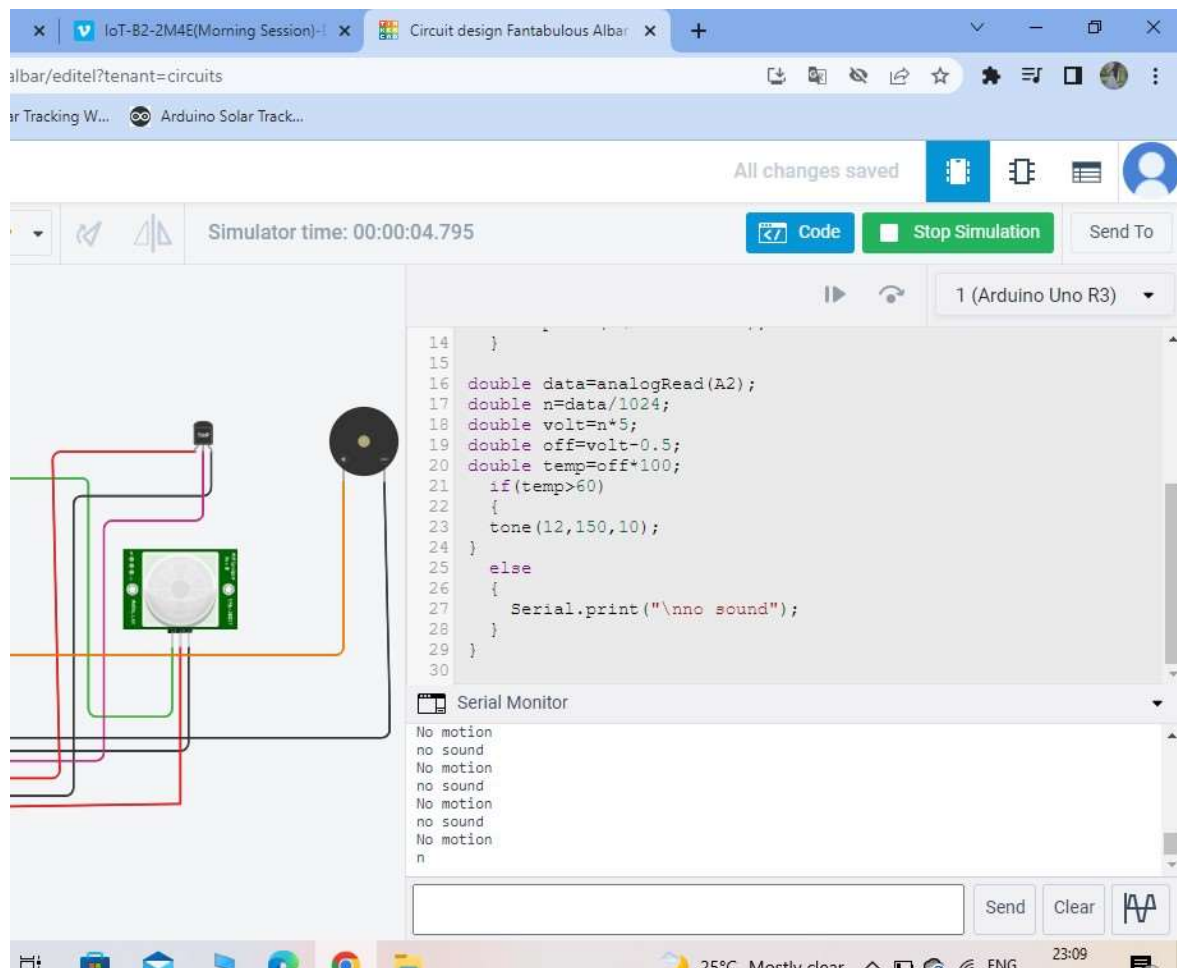
Please create circuit with Piezo alarm, PIR sensor, temperature sensor with below functionalities:

1. Alarm should sound in one manner if temp is above 60 C
2. Alarm should sound with another frequency if motion is detected in PIR sensor.

CONNECTION DIAGRAM:



## OUTPUT:



VID\_20220914\_2312  
07\_0\_COMPRESSED.

*output video 1*

## CODING:

```
void setup(){
  Serial.begin(9600);
  pinMode(3,INPUT);
  pinMode(12,OUTPUT);
}

void loop() {
  int motion=digitalRead(3);
  if(motion==1){
    tone(12,250,100);
  }
  else {
    Serial.print("\nNo motion");
  }
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temp=off*100;
  if(temp>60){
    tone(12,150,10);
  } else
  {
    Serial.print("\nno sound");
  }
}
```