

## Assignment-1

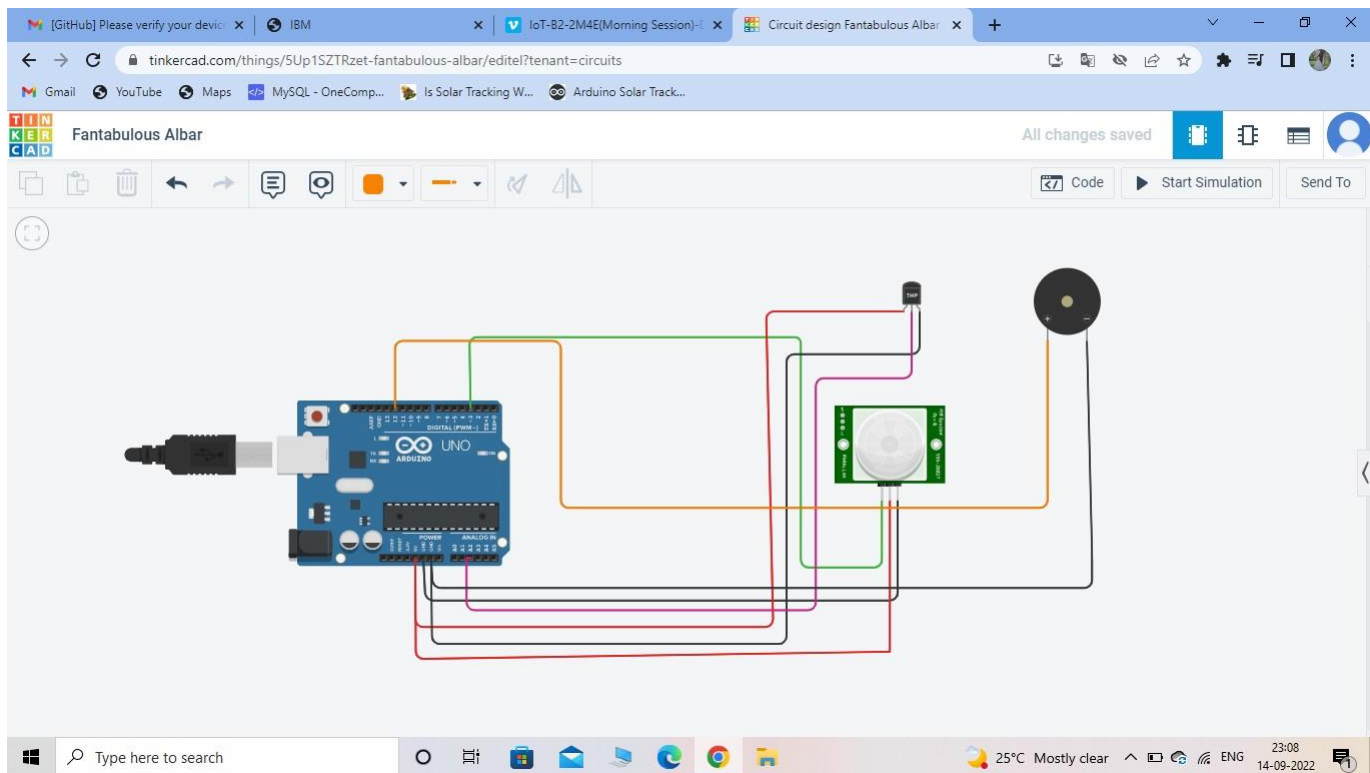
Assignment Date	3 November 2022
Student name	Sandeep Kumaran.M.P
Student roll number	732919ECR111
Maximum marks	2 Marks

### Question 1:

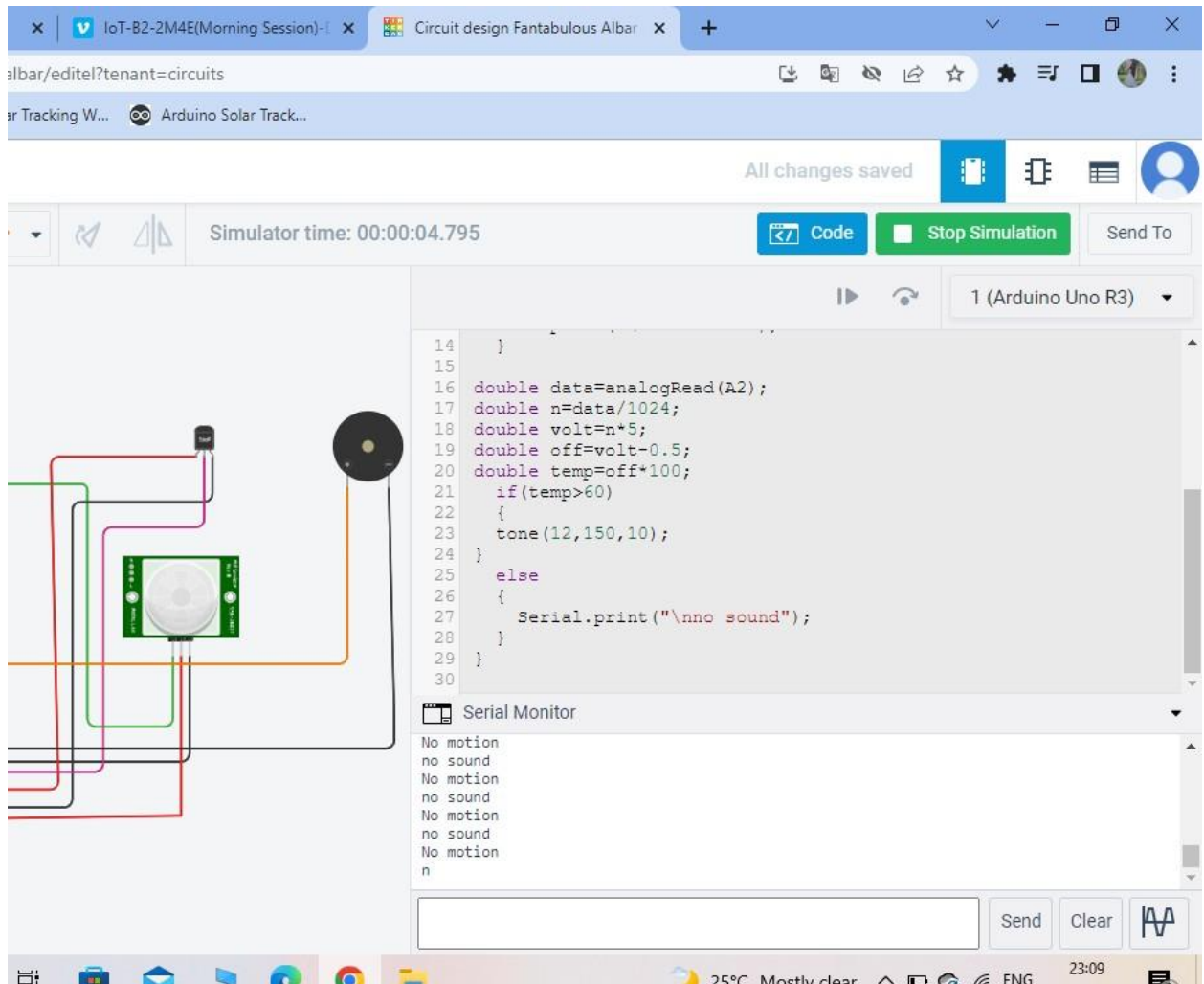
Please create circuit with Piezo alarm, PIR sensor, tmp sensor with below functionalities:

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.

**Connected 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");
  }
}
```

