Assignment -1

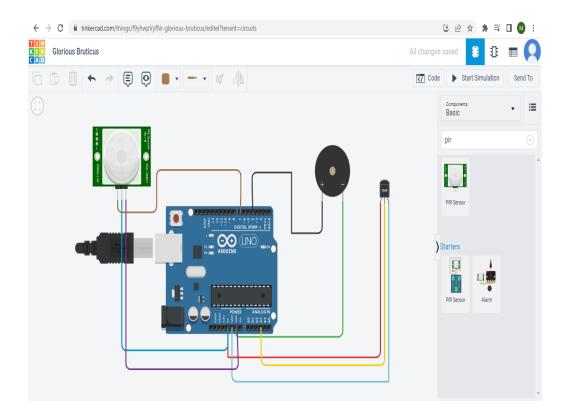
Assignment Date	27 September 2022
Student Name	S.Prakash
Student Roll Number	922519205077
Maximum Marks	2 Marks

Question-1:

To design a circuit using PIR sensor, Temperature sensor and Piezo alarm and to perform the following operations:

- 1. Alarm should sound in one manner if the temperature is above "60 C".
- 2. Alarm should sound with another frequency if motion is detected using PIR sensor.

Solution:



Code

```
void setup()
 Serial.begin(9600);
 pinMode(4,OUTPUT);
 pinMode(7,INPUT);
void loop()
 int mov=digitalRead(7);
 double dt=analogRead(A3);
 double n=dt/1024;
 double volt=n*5;
 double offset=volt-0.5;
 double temp=offset*100;
 Serial.print("Temperature Detected: ");
 Serial.println(temp);
 if(mov==0){
  Serial.println("No Motion Detected");
 }
 if(mov==1){
  Serial.println("Motion Detected");
  tone(4,100,1000);
 if(temp>60){
  tone(4,400,1000);
```

Output:

