#### **IBM ASSIGNMENT-IOT**

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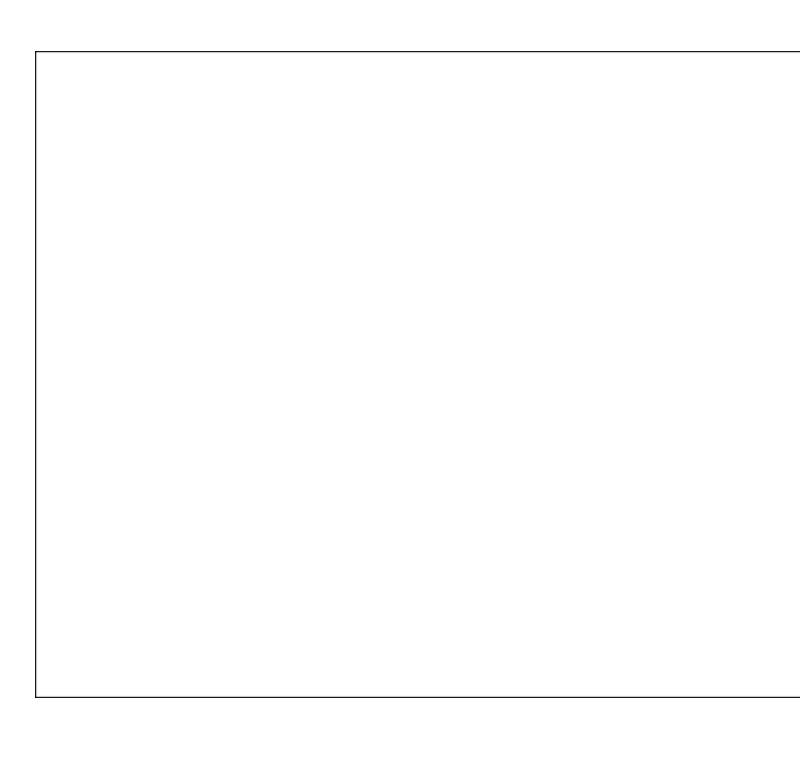
College Name : V.S.B Engineering College, Karur.

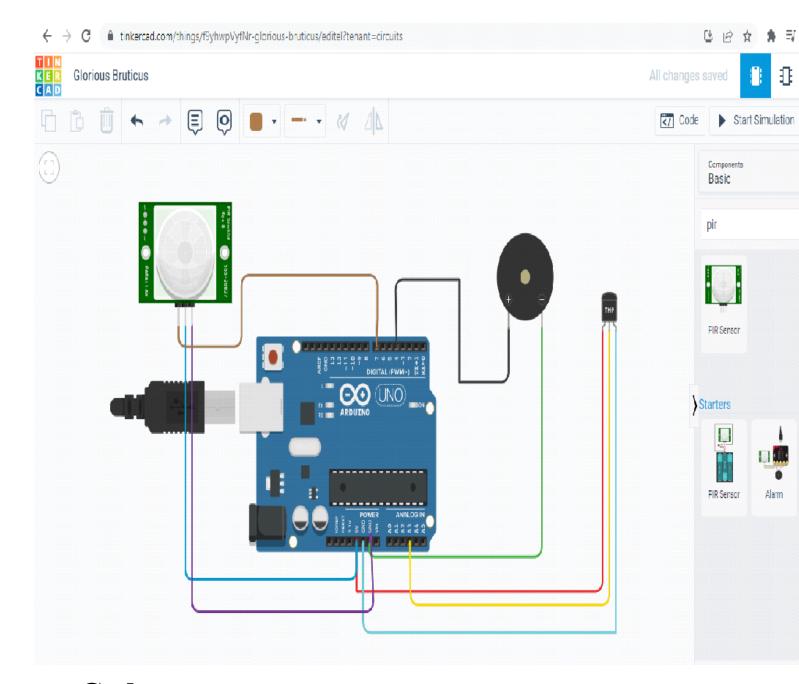
#### **Topic:**

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

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

### **Circuit:**





## **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:**

