# **IBM ASSIGNMENT-IOT**

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Degree :B.Tech

Branch :Information Technology

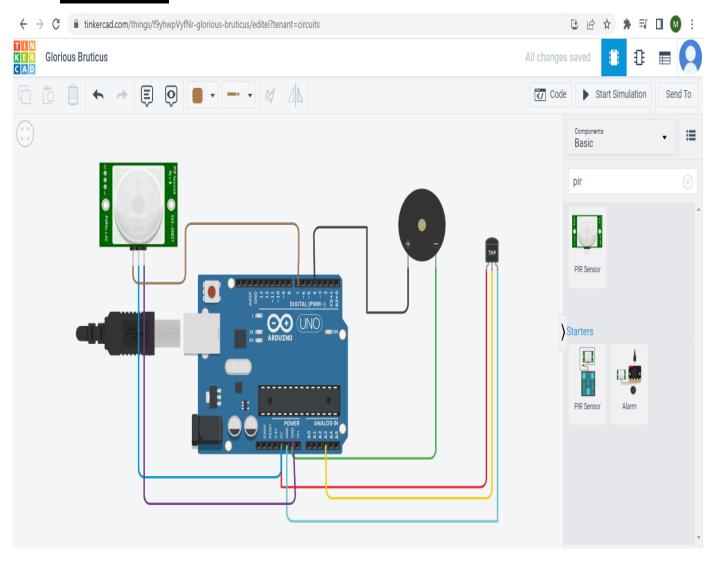
College Name : V.S.B Engineering College, Karur.

## **Topic:**

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

- 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.

#### Circuit:



### **Code:**

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

```
if(temperature>60){
  tone(4,400,1000);
}
```

## **Output:**

