IBM ASSIGNMENT 2 IOT

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Degree :B.E

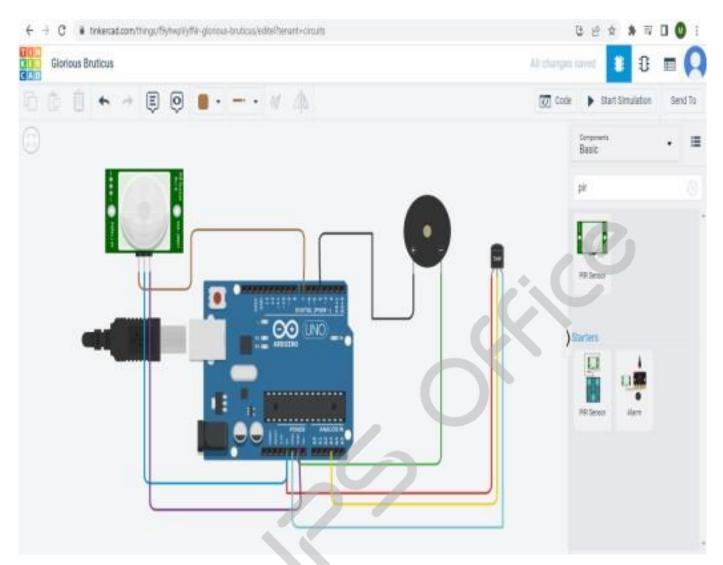
Branch :Computer Science and Engineering

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 mov=digitalRead(7);
    double dt=analogRead(A3);
    double a=dt/1024;
```

```
double volt=a*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:

