## **IBM ASSIGNMENT-IOT**

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Degree :B.Tech

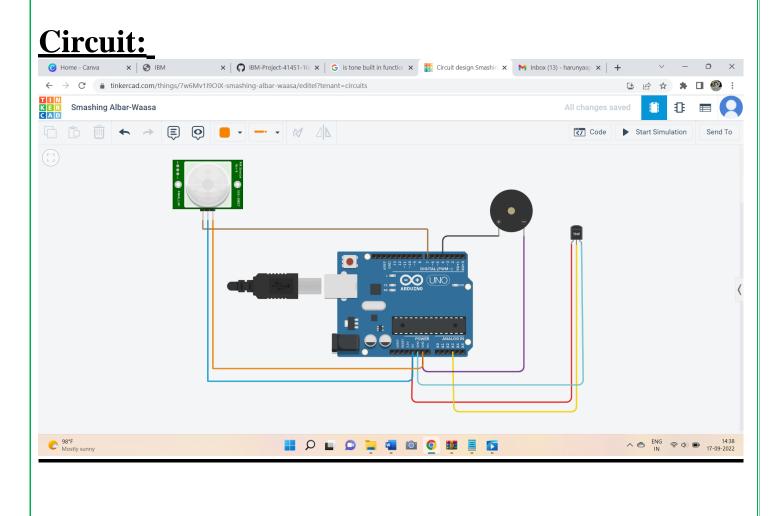
Branch :Information Technology

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.



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

