## Assignment - 4

Link:

https://wokwi.com/projects/347029623224140371

## Program Code:

```
1 #define ECHO_PIN 2
2 #define TRIG_PIN 3
3 #define organization = "t18snh
4 #define deviceType = "ibm"
5 #define deviceId = "20"
6 #define authMethod = "token"
7 #define authToken = "12345678"
8
9 void setup(){
10
      Serial.begin(9600);
11
      pinMode(TRIG_PIN,OUTPUT);
12
      pinMode(ECHO_PIN,INPUT);
13 }
14
15
   float readDistanceCM(){
       digitalWrite(TRIG_PIN,LOW);
16
17
       delayMicroseconds(2);
18
       digitalWrite(TRIG_PIN,HIGH);
19
       delayMicroseconds(10);
       digitalWrite(TRIG_PIN,LOW);
20
21
       int duration=pulseIn(ECHO_PIN,HIGH);
       return duration*0.034/2;
22
23 }
   void loop(){
24
25
        float distance=readDistanceCM();
26
27
       if(distance<=100)
28
29
           Serial.println("person detected");
30
31
32
       else{
           Serial.print("Measured distance:");
33
34
           Serial.println(readDistanceCM());
35
```

```
36 delay(1000);
37 }
38
```

## **IBM CIOUD:**





