## Assignment - 4

Link:

https://wokwi.com/projects/347029083402535506

## Program Code:

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

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

## IBM CIOUD:







