## **ASSIGNMENT-4**

Project link: <a href="https://wokwi.com/projects/290056311044833800">https://wokwi.com/projects/290056311044833800</a>

```
Code:
```

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization =" rxswes"
#define device type ="ultrasonic"
#define deviceId="2710"
#define authmethod="token"
#define authToken="123456789"
void setup() {
Serial.begin(115200);
pinMode(LED_BUILTIN, OUTPUT);
pinMode(TRIG_PIN, OUTPUT);
pinMode(ECHO_PIN, INPUT);
}
float readDistanceCM() {
digitalWrite(TRIG_PIN, LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, LOW);
 int duration = pulseIn(ECHO_PIN, HIGH);
return duration * 0.034 / 2;
}
void loop(){
float distance=readDistanceCM();
if(distance<=100)</pre>
 Serial.println("person detected");
else{
Serial.print("Measured distance:");
Serial.println(readDistanceCM());
delay(1000);
}
```





