ASSIGNMENT 4

PROGRAM:

```
#define ECHO PIN 2
#define TRIG PIN 3
#define organization ="zwx6lb"
#define device type ="dhars"
#define deviceId="75"
#define authmethod="token"
#define authToken="12345678"
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)
  {
     Serial.println("person detected");
  }
  else{
     Serial.print("Measured distance:");
     Serial.println(readDistanceCM());
  }
  delay(1000);
}
Link:
```

https://wokwi.com/projects/290056311044833800

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