Assignment – 4

Link:

}

https://wokwi.com/projects/290056311044833800

```
Program Code:
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "k2m20e"
#define deviceType = "abcd"
#define deviceId = "16"
#define authMethod = "token"
#define authToken = "12345678"
void setup(){
  Serial.begin(9600);
  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);
}</pre>
```

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