**Assignment 4**

Project Link:<https://wokwi.com/projects/290056311044833800>

Code:

#define ECHO\_PIN 2

#define TRIG\_PIN 3

#define organization ="kv09p4"

#define device type ="Groot"

#define deviceId="13"

#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)

{

Serial.println("person detected");

}

else{

Serial.print("Measured distance:");

Serial.println(readDistanceCM());

}

delay(1000);

}





