

# ASSIGNMENT 04

<https://wokwi.com/projects/346936127402279508>

Python code:

#define ECHO\_PIN2

#define TRIG\_PIN3

#define organization = "pb6xw8"

#define deviceType = "abcd"

#define deviceId = "12"

#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());

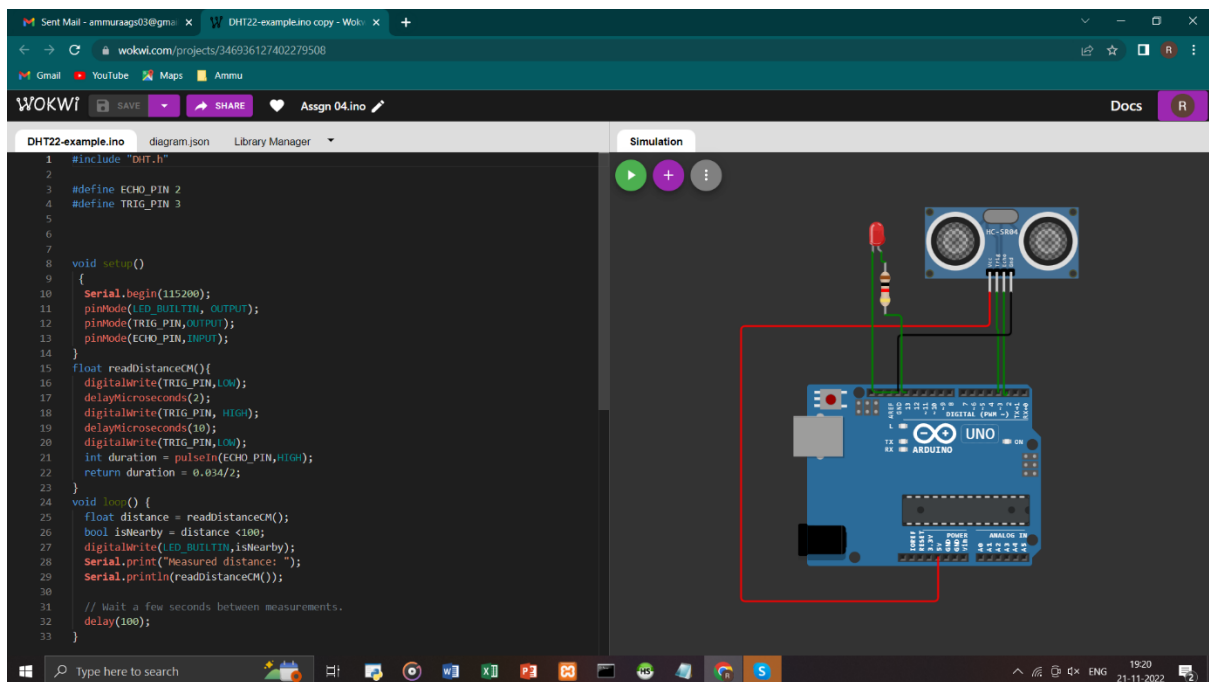
}

delay(1000);

}

```

### **Simulation:**



### **IBM WATSON CLOUD:**

IBM Watson IoT Platform

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
120321	Disconnected	Iotsensors	Device	Nov 21, 2022 7:37 PM	

Identity Device Information Recent Events State Logs

Device ID: 120321  
Device Type: Iotsensors  
Date Added: Nov 21, 2022 7:37 PM  
Added By: ammuraags03@gmail.com  
Connection Status: Disconnected

Items per page: 50 | 1-1 of 1 item

1 of 1 page

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type	Class ID	Date
120321	Disconnected	Iotsensors	Device	Nov 21, 2022 7:37 PM

Items per page: 50 | 1-1 of 1 item

Device Type: iotsensors

Events 1

New event type

Event type name: eventflow

Schedule: 20 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
{
  0: {
    1: "randomNumber": random(0, 100)
    2: }
  3: }
```

Upload a CSV file

What functions can I apply?

Cancel Save