

ASSIGNMENT 04

<https://wokwi.com/projects/348465553603560020>

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:");
```

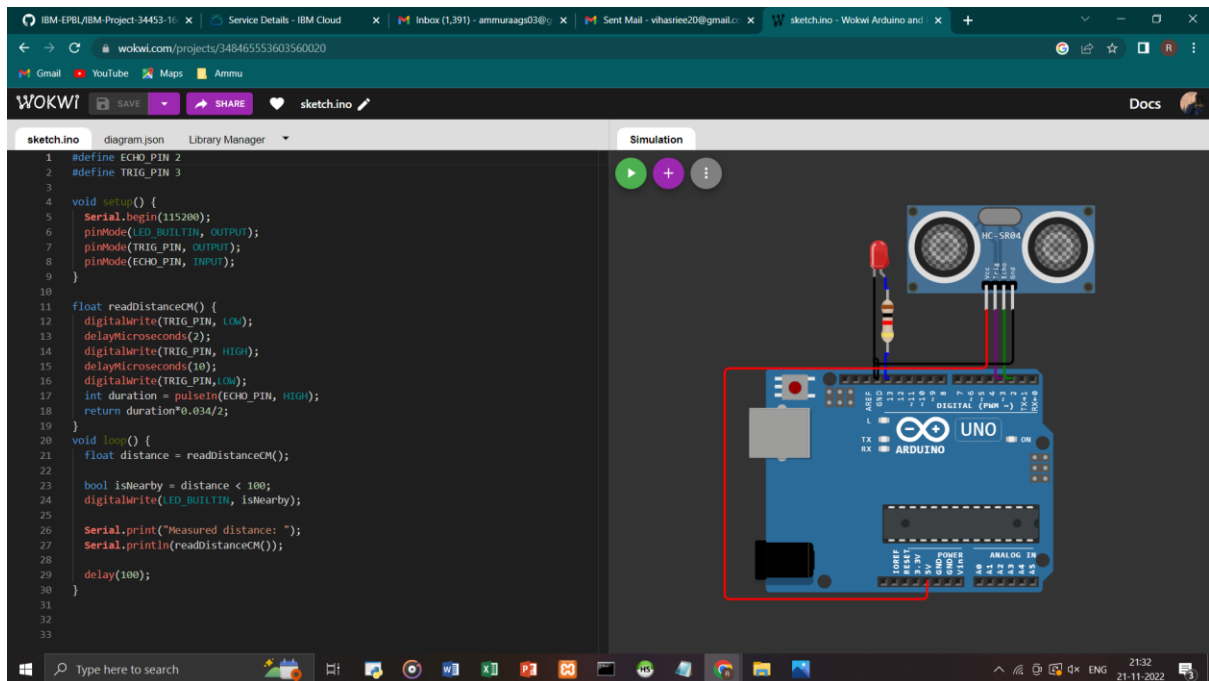
```
Serial.println(readDistanceCM());
```

```
}
```

```
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
201221	Disconnected	Iotsensors	Device	Nov 21, 2022 9:40 PM	

Identity | Device Information | Recent Events | State | Logs

Device ID: 201221
Device Type: Iotsensors
Date Added: Nov 21, 2022 9:40 PM
Added By: vihasree20@gmail.com
Connection Status: Disconnected

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IBM Watson IoT Platform

Search by Device ID

Device Type: iotsensors

Events 1

Event type name: eventflow

Schedule: 1 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