

## ASSIGNMENT- 4

<b>Assignment Date</b>	<b>24 October 2022</b>
<b>Student Name</b>	<b>YOKESH KRISHNAN S</b>
<b>Student Roll Number</b>	<b>311019205701</b>
<b>Maximum Mark</b>	<b>2 Marks</b>

### Question:

Write code and connections in wokwi for ultrasonic. And for sending alert

### Program:

```
#define ECHO_PIN 2
#define TRIG_PIN 3

void setup() {
  Serial.begin(9600);
  pinMode(TRIG_PIN, OUTPUT);
  pinMode(ECHO_PIN, INPUT);
}

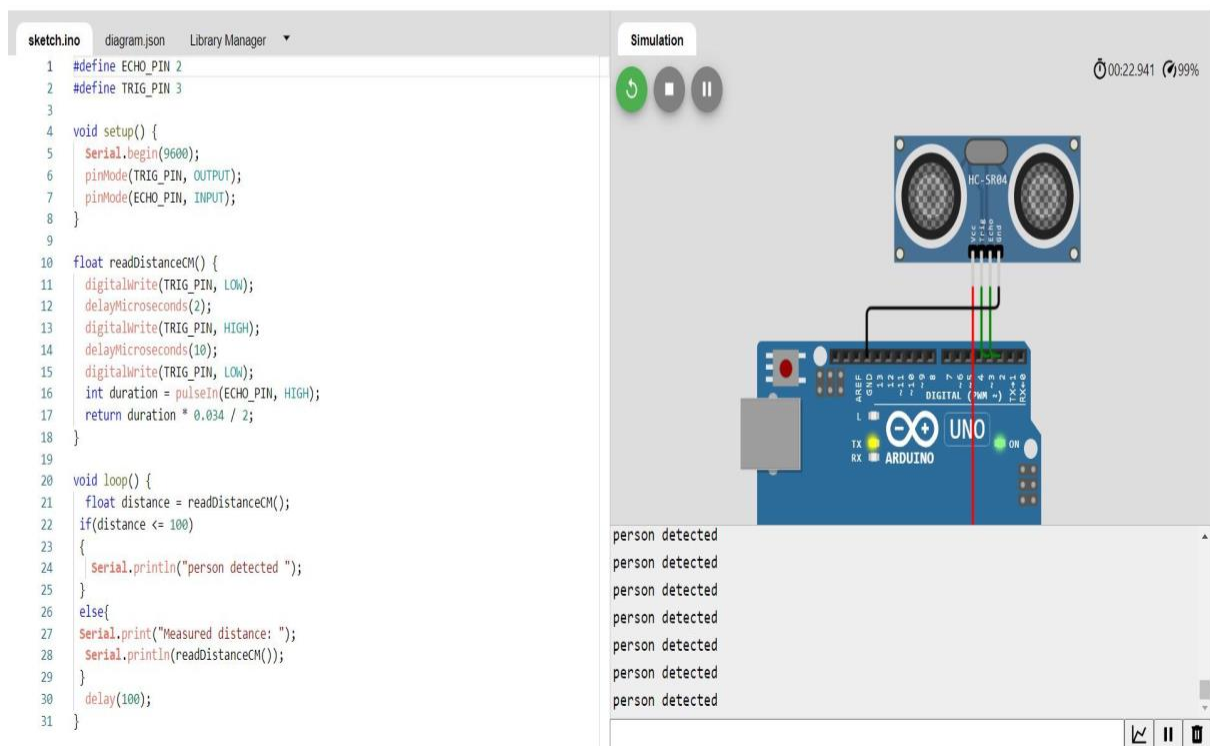
float readDistanceCM() {
  digitalWrite(TRIG_PIN, LOW);
  delayMicroseconds(2);
  digitalWrite(TRIG_PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG_PIN, LOW);
  int duration = pulseIn(ECHO_PIN, HIGH);
  return duration * 0.034 / 2;
}

void loop() {
  float distance = readDistanceCM();
  if(distance <= 100)
  {
    Serial.println("person detected ");
  }
}
```

```

else{
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());
}
delay(100);
}

```



**Wokwi Link:** <https://wokwi.com/projects/346965903633547858>

# IBM Cloud

Browse

Action

Device Types

Interfaces

Add Device

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID
1234	Disconnected	SmartFarmer	Device
Ultrasonic_1	Disconnected	Ultrasonic	Device
pga460_sensor	Disconnected	Ultrasonic	Device

Identity

Device Information

Recent Events

State

Logs

Device ID

Device Type

Date Added

Added By

Connection Status

Ultrasonic\_1

Ultrasonic

Oct 25, 2022 4:25 PM

820419205501@smartinternz.com

Disconnected

Last Connected: Oct 25, 2022 4:28 PM

Client Address: 42.109.148.176 SecureToken

Duration: 2 minutes

Data Transferred: 2.7 KB