## **ASSIGNMENT-4**

<b>Assignment Date</b>	22 October 2022
Student Name	A. Dinesh Kumar
Student Roll Number	311019205011
Maximum Mark	2 Marks

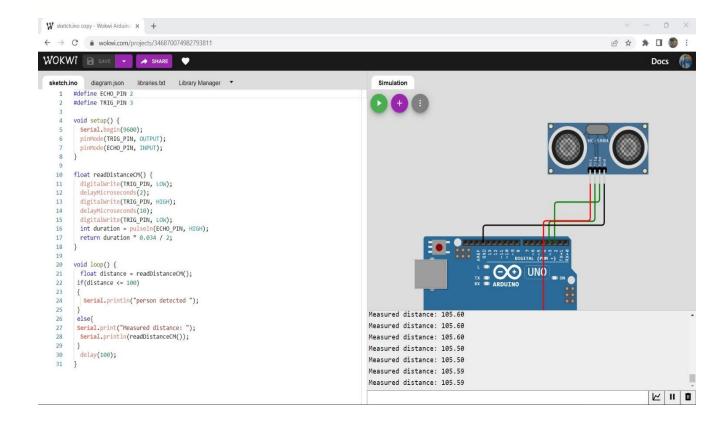
## **Question:**

Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cm s send "alert" to ibm cloud and display in device recent events.

## **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 \le 100)
```

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



Wokwi Link: https://wokwi.com/projects/346870074982793811

## **IBM Cloud**

