

## ASSIGNMENT 4

Date	25 October 2022
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**Write code and connections in wowki for ultrasonic sensor.**  
**Whenever distance is less than 100cms send “alert” to ibm cloud and display in device recent events.**

### **PROGRAM CODE:**

```
#include "Ultrasonic.h"
Ultrasonic ultrasonic(12, 13);
int distance;
void setup() {
  Serial.begin(9600);
}
void loop() {
  distance = ultrasonic.read(CM);
  Serial.print("Distance in CM: ");
  Serial.println(distance);
  if (distance < 100)
  Serial.print("alert");
  Serial.println();
  delay(1000);
}
```

## OUTPUT:

W New Arduino Uno Project - Wokwi x +

wokwi.com/projects/new/arduino-uno

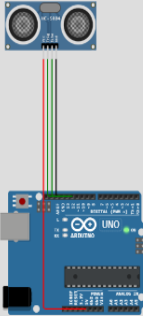
WOKWI SAVE SHARE Docs

sketch.ino • diagram.json • libraries.txt • Library Manager

```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(12, 13);
3 int distance;
4 void setup() {
5   Serial.begin(9600);
6 }
7 void loop() {
8   distance = ultrasonic.read(CM);
9   Serial.print("Distance in CM: ");
10  Serial.println(distance);
11  if (distance < 100)
12    Serial.print("alert");
13    Serial.println();
14    delay(1000);
15  }
16
```

Simulation

01:28.177 91%



Distance in CM: 109

Distance in CM: 24

alert

Distance in CM: 61

alert

Type here to search

31°C Haze ENG 1:11 PM 26-Oct-22