

## 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 sketchino copy - Wokwi Arduino: x Important: Complete Signup x +

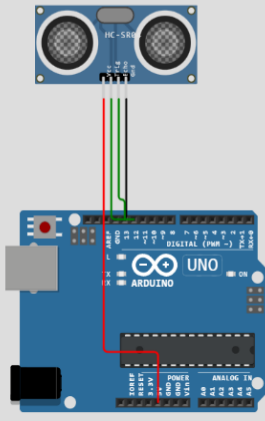
wokwi.com/projects/346573495090545235

WOKWI SAVE SHARE

sketchino 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.readCM();
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 }
```

Simulation



Distance in CM: 2  
alert  
Distance in CM: 183  
Distance in CM: 183  
Distance in CM: 357

15:11 26-10-2022