

## 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:

WOKWI

SAVE SHARE

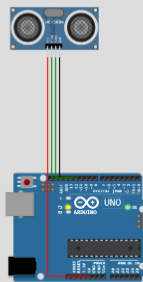
Docs

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

01:23.663 93%



Distance in CM: 20  
alert  
Distance in CM: 87  
alert  
Distance in CM: 157  
Distance in CM: 205

Start