

ASSIGNMENT 4

Date	30 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(9809);
}
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

SIGN IN

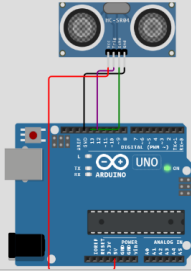
hc-sr04-Ultrasonic-Simulation.ino • diagram.json Ultrasonic.h Ultrasonic.cpp

Library Manager

```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(12, 13);
3 int distance;
4
5 void setup() {
6   Serial.begin(9600);
7 }
8
9 void loop() {
10  distance = ultrasonic.read(CM);
11  Serial.print("Distance in CM: ");
12  Serial.println(distance);
13  if (distance < 100)
14    Serial.print("alert");
15    Serial.println();
16    delay(1000);
17 }
```

Simulation

01:41.926 62%



Distance in CM: 104
Distance in CM: 104
Distance in CM: 176
Distance in CM: 357
Distance in CM: 50
alert