

## ASSIGNMENT 4

Date	28 October 2022
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Roll No	711319EC090

**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(6,2);
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(3000);
```

}

## OUTPUT:

WOKWI

hc-sr04-Ultrasonic-Simulation.ino x IBM-Project-10124-1659097522/ x +

wokwi.com/projects/312346565007114818

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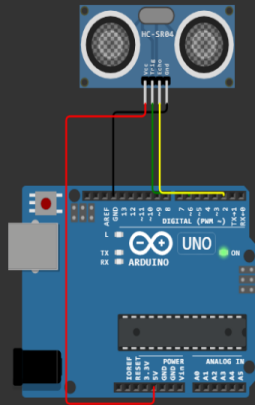
SAVE SHARE

Docs

hc-sr04-Ultrasonic-Simulation.ino diagram.json Ultrasonic.h Ultrasonic.cpp Library Manager Simulation

```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(6,2);
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(3000);
15 }
16
```

00:16.038 85%



Distance in CM: 317

Distance in CM: 162

Distance in CM: 47

alert

30°C Cloudy

7:38 PM 10/28/2022