

ASSIGNMENT 4

Date	30 October 2022
Team ID	PNT2022TMID14470
Roll No	711319EC0119

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

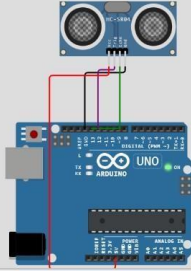
Library Manager

```
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