

Assignment 4

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| Team Id | PNT2022TMID14029 |
| Project Name | Gas Leakage Monitoring and Alerting System for Industries |
| Roll No | 711319cs081 |

**Write a code and connections in wokwi for ultrasonic sensor.
Whenever distance is less than 100 cms "send" alert to IBM Cloud
and display in device recent events**

Program Coding

```
#include "Ultrasonic.h"
Ultrasonic ultrasonic(12, 13);
int distance;
void setup() {
  Serial.begin(9600);
}
void loop() {
  // Pass INC as a parameter to get the distance in inches
  distance = ultrasonic.read(CM);
  Serial.print("Distance in CM: ");
  Serial.println(distance);
  if (distance < 100)
  Serial.print("alert");
  Serial.println();
  delay(1000);
}
```

Output

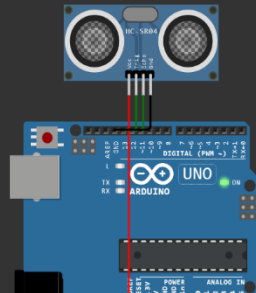
WOKWI SAVE SHARE Docs SIGN UP

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   // Pass INC as a parameter to get the distance in inches
9   distance = ultrasonic.read(CM);
10  Serial.print("Distance in CM: ");
11  Serial.println(distance);
12  if (distance < 100)
13    Serial.print("alert");
14    Serial.println();
15    delay(1000);
16 }
```

Simulation

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Distance in CM: 357

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