

ASSIGNMENT 4

Date	18 November 2022
Team ID	PNT2022TMID36794
Project	Gas Leakage Monitoring And Alerting System

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:

```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(12, 11);
3 int distance;
4 void setup() {
5   Serial.begin(9600);
6 }
7 void loop() {
8   distance = ultrasonic.read(100);
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
17
18
```

