Assignment 4

Team Id	PNT2022TMID14029
Project Name	Gas Leakage Monitoring and Alerting System for Industries
Roll No	711319cs096

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);

}
```
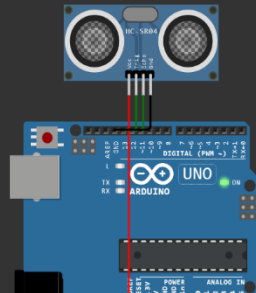
Output

WOKWI   SAVE   SHARE   Docs   SIGN UP

sketch.ino   diagram.json   libraries.txt   Library Manager   Simulation   00:07.663   91%

```
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  }
```

Distance in CM: 357

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