ASSIGNMENT 4

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:


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

```
Distance in CM: 317

Distance in CM: 162

Distance in CM: 47
alert
```