Assignment -4

Assignment Date	12 November 2022
Student Name	Kishor M
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Maximum Marks	2 Marks

Question-1:

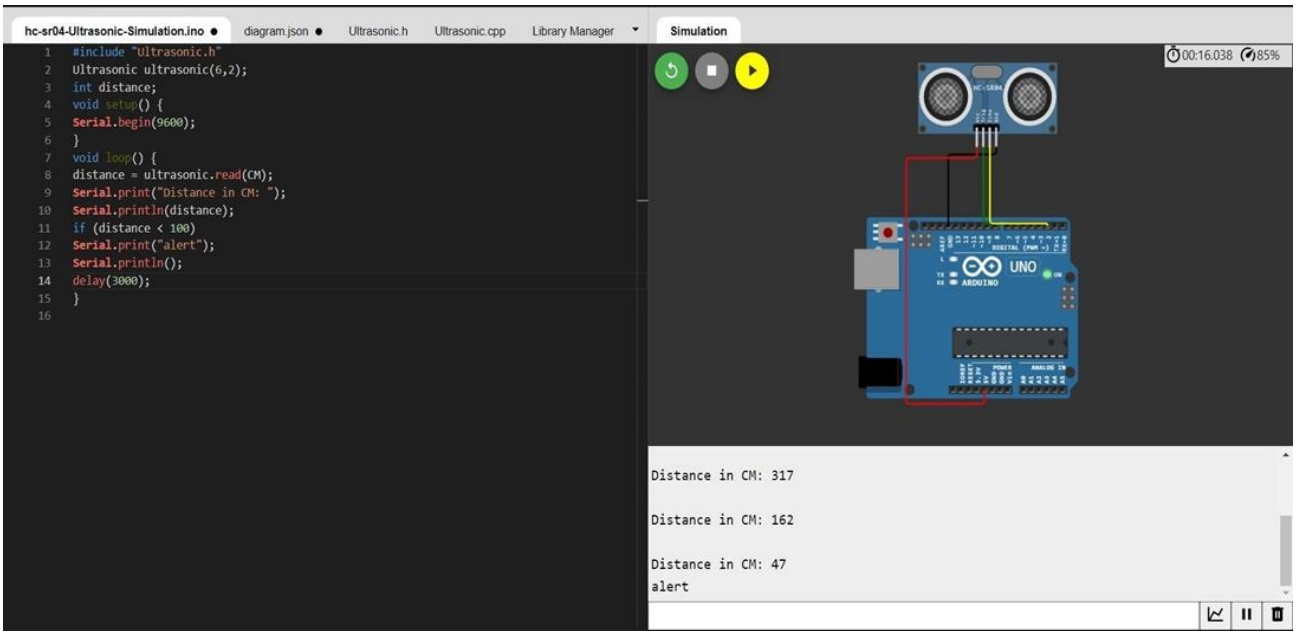
Write code and connections in wokwi for the ultrasonic sensor.

Whenever the distance is less than 100 CMS send an "alert" to the IBM cloud and display in the device recent events.

Solution :

```
#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
Simulation
00:16.038
85%
#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);
}
UNO
ARDUINO
Distance in CM: 317
Distance in CM: 162
Distance in CM: 47
alert