

## ASSIGNMENT 4

Date	28 October 2022
Team ID	PNT2022TMID41830
Roll No	622419104001

**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);  
  
}
```

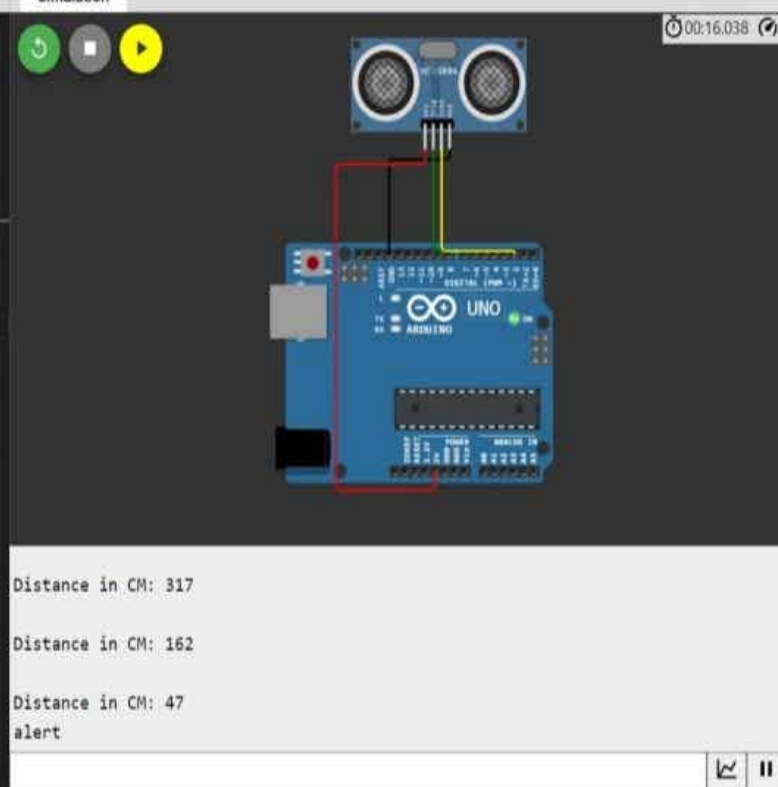
## OUTPUT:

WOKWI

hc-ar04-Ultrasonic-Simulation.ino • diagram.json • Ultrasonic.h • Ultrasonic.cpp • Library Manager • Simulation

```
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  {  
13    Serial.print("alert");  
14    Serial.println();  
15    delay(3000);  
16  }
```

00:16.038



Distance in CM: 317

Distance in CM: 162

Distance in CM: 47

alert

30°C Cloudy

7:38 PM 10/28/2022