

Team ID	PNT2022TMID44448
Submitted By	Priyadharsini T
Topic	Signs With smart connectivity for better road safety
Assignment	Write code and connections in wokwi 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(8,13);
int distance;
void setup() {
  Serial.begin(9600);
}
void loop() {
  distance = ultrasonic.read();
  Serial.print("Distance in CM: ");
  Serial.println(distance);
  If (distance <100)
    Serial.print("alert ");
  Serial.println();
  delay(3000);
}

```

Output :

Wokwi hc sr04 ultrasonic sensor x | G wokwi hc sr04 ultrasonic sensor x | G wokwi hc sr04 ultrasonic sensor x | W hc-sr04-Ultrasonic-Simulation.in x +

wokwi.com/projects/312346565007114818

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WOKWI SAVE SHARE

Docs

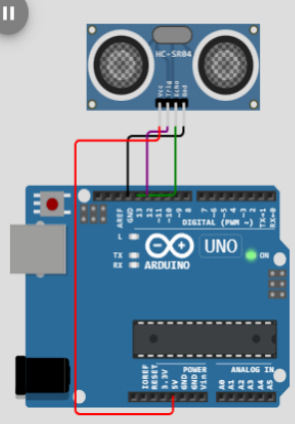
hc-sr04-Ultrasonic-Simulation.ino • diagram.json • Ultrasonic.h • Ultrasonic.cpp

Library Manager

```
37
38 #include "Ultrasonic.h"
39 /*
40  * Pass as a parameter the trigger and echo pin, respectively,
41  * or onnal pin (for sensors 3 pins), like:
42  * Ultrasonic ultrasonic(13);
43  */
44 Ultrasonic ultrasonic(8,13);
45 int distance;
46 void setup(){
47   Serial.begin(9600);
48 }
49 void loop() {
50   distance = ultrasonic.read(CM);
51   Serial.print("Distance in CM: ");
52   Serial.println(distance);
53   if (distance < 100)
54     Serial.print("alert");
55   Serial.println();
56   delay(3000);
57 }
```

Simulation

00:18.993 75%



Distance in CM: 0
alert
Distance in CM: 0
alert

Type here to search

31°C Cloudy 12:11 AM 11/1/2022

