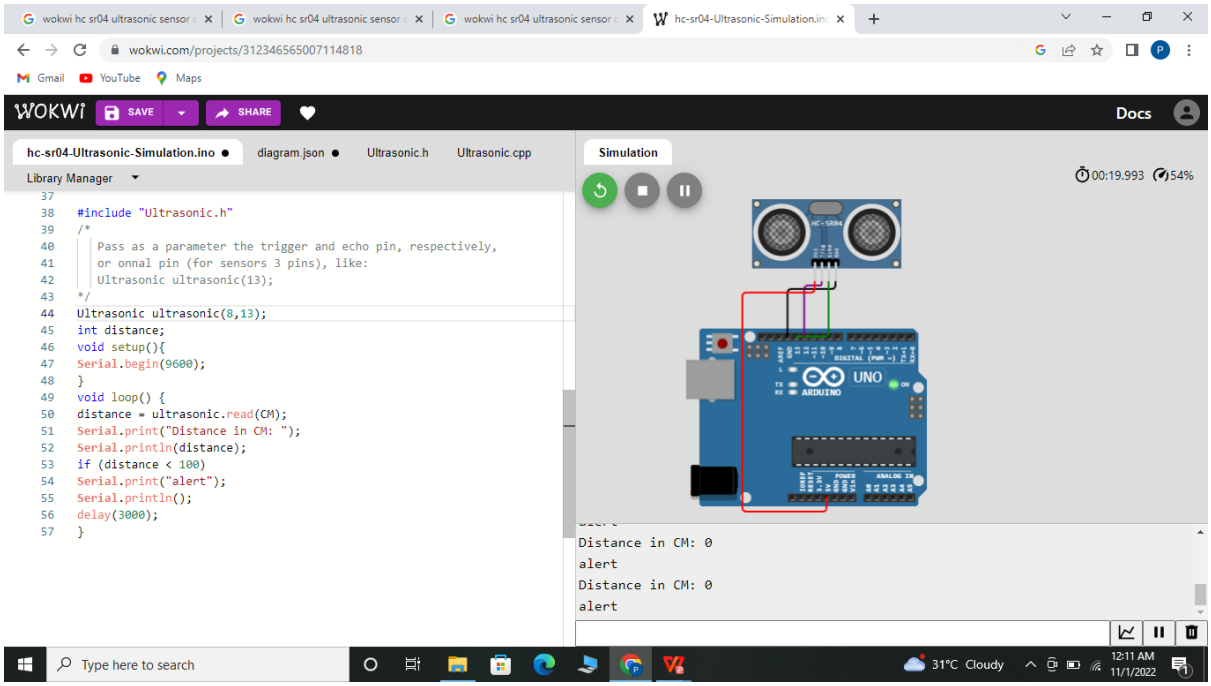
Team ID	PNT2022TMID44448
Submitted by	K.Nithya
Topic	Signs With smart connectivity for better road safety
Assignment	Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100cms send “alert” to IBM cloud and display in device recent events.

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
hc-sr04-Ultrasonic-Simulation.ino
wokwi.com/projects/312346565007114818
Gmail
YouTube
Maps
WOKWI
SAVE
SHARE
Docs
hc-sr04-Ultrasonic-Simulation.ino
diagram.json
Ultrasonic.h
Ultrasonic.cpp
Library Manager
#include "Ultrasonic.h"
/*
Pass as a parameter the trigger and echo pin, respectively,
or onnal pin (for sensors 3 pins), like:
Ultrasonic ultrasonic(13);
*/
Ultrasonic ultrasonic(8,13);
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);
}
Simulation
00:19.993
54%
UNO
ARDUINO
Distance in CM: 0
alert
Distance in CM: 0
alert
Type here to search
31°C Cloudy
12:11 AM
11/1/2022