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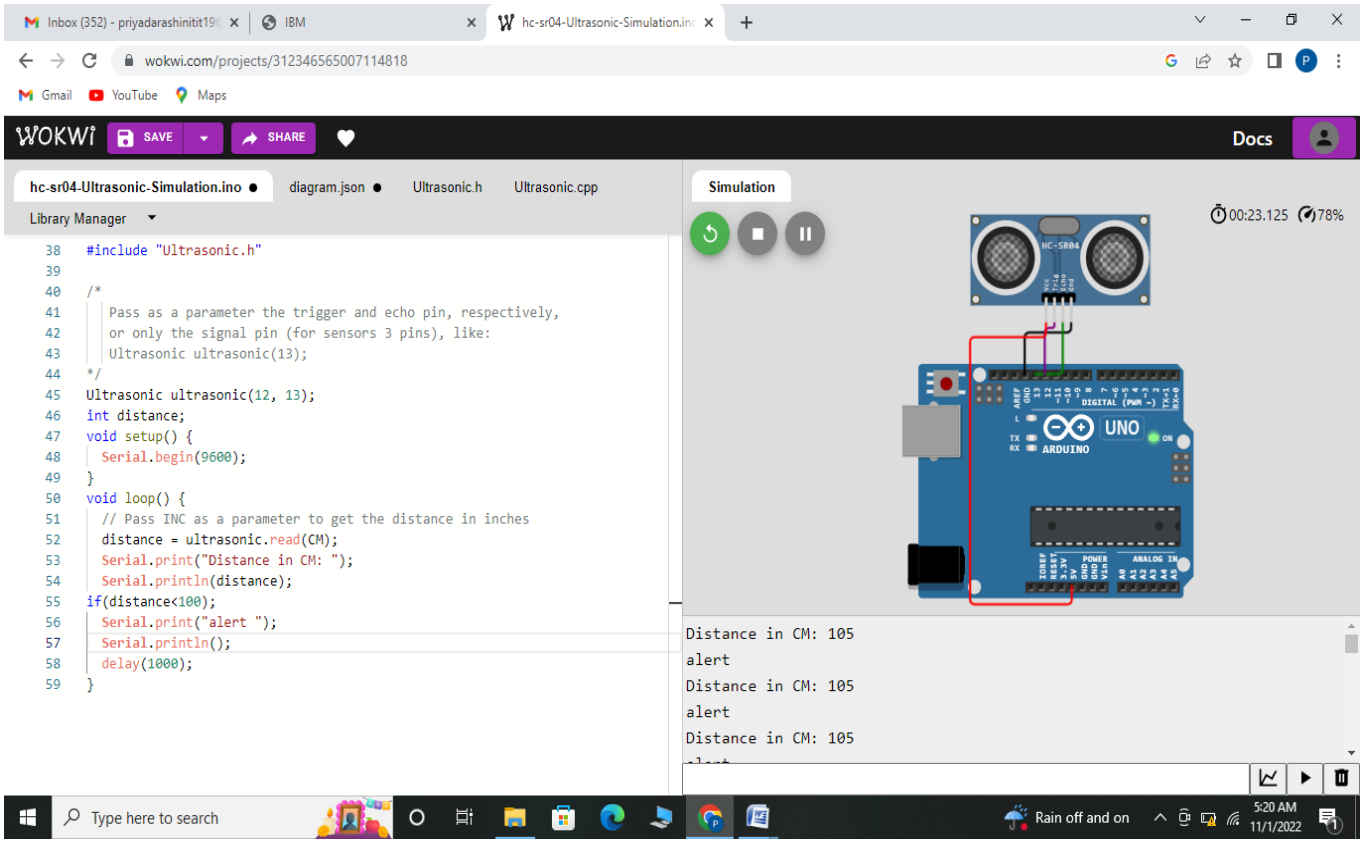
Topic	Signs With smart connectivity for better road safety
Assignment	Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100cms send “alert” to IBM cloud and display in device recent events.

Program Code :

```
#include "Ultrasonic.h"
Ultrasonic ultrasonic(12,13);
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(1000);
}
```

Output :


wokwi.com/projects/312346565007114818
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 only the signal pin (for sensors 3 pins), like:
Ultrasonic ultrasonic(13);
*/
Ultrasonic ultrasonic(12, 13);
int distance;
void setup() {
Serial.begin(9600);
}
void loop() {
// Pass INC as a parameter to get the distance in inches
distance = ultrasonic.read(CM);
Serial.print("Distance in CM: ");
Serial.println(distance);
if(distance<100);
Serial.print("alert ");
Serial.println();
delay(1000);
}
Simulation
00:23.125
78%
HC-SR04
UNO
ARDUINO
Distance in CM: 105
alert
Distance in CM: 105
alert
Distance in CM: 105
Type here to search
Rain off and on
5:20 AM
11/1/2022