Nalaiya Thiran (IBM)

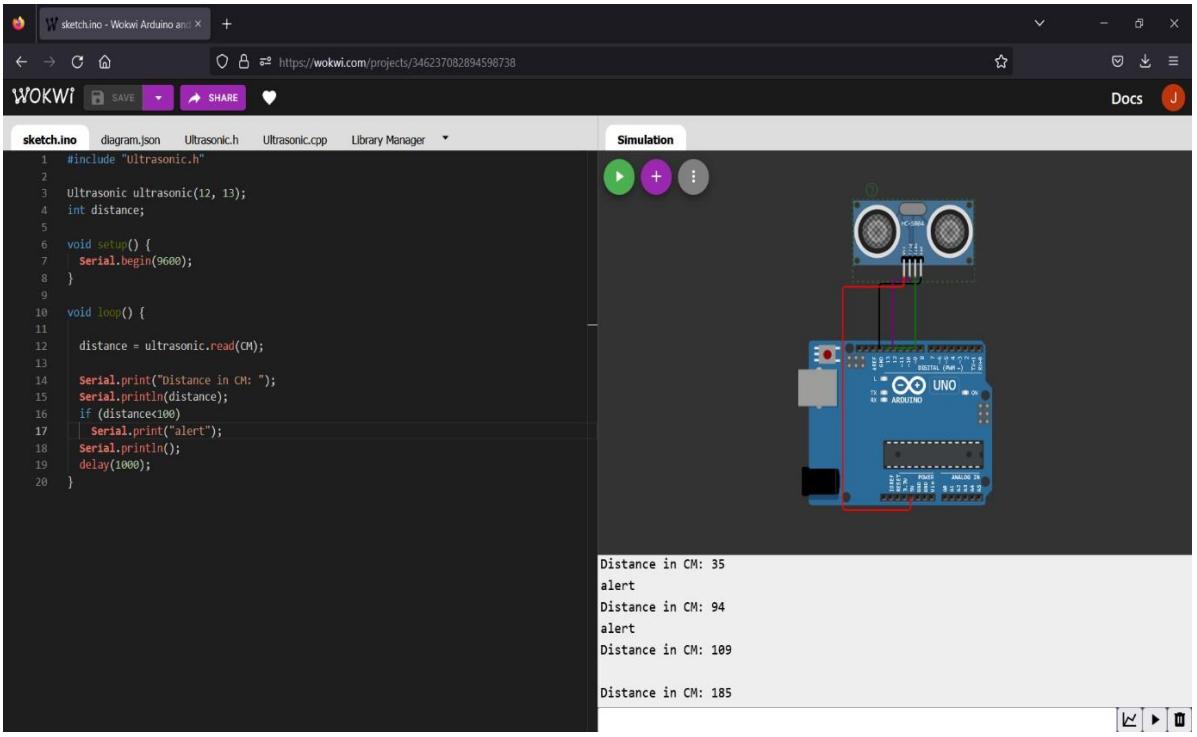
ASSIGNMENT – 4

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.

Code:

```
#include "Ultrasonic.h"

Ultrasonic ultrasonic(12, 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(1000);
}
```

Output:


sketch.ino - Wokwi Arduino and
https://wokwi.com/projects/346237082894598738
WOKWI
SAVE
SHARE
Docs
sketch.ino
diagram.json
Ultrasonic.h
Ultrasonic.cpp
Library Manager
#include "Ultrasonic.h"
Ultrasonic ultrasonic(12, 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(1000);
}
Simulation
UNO
ARDUINO
Distance in CM: 35
alert
Distance in CM: 94
alert
Distance in CM: 109
Distance in CM: 185