SMART SOLUTION FOR WASTE MANAGEMENT

ASSIGNMENT-4

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QUESTION:

Write Code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100 cm send “Alert” to IBM cloud and display in device recent events.

CODING:

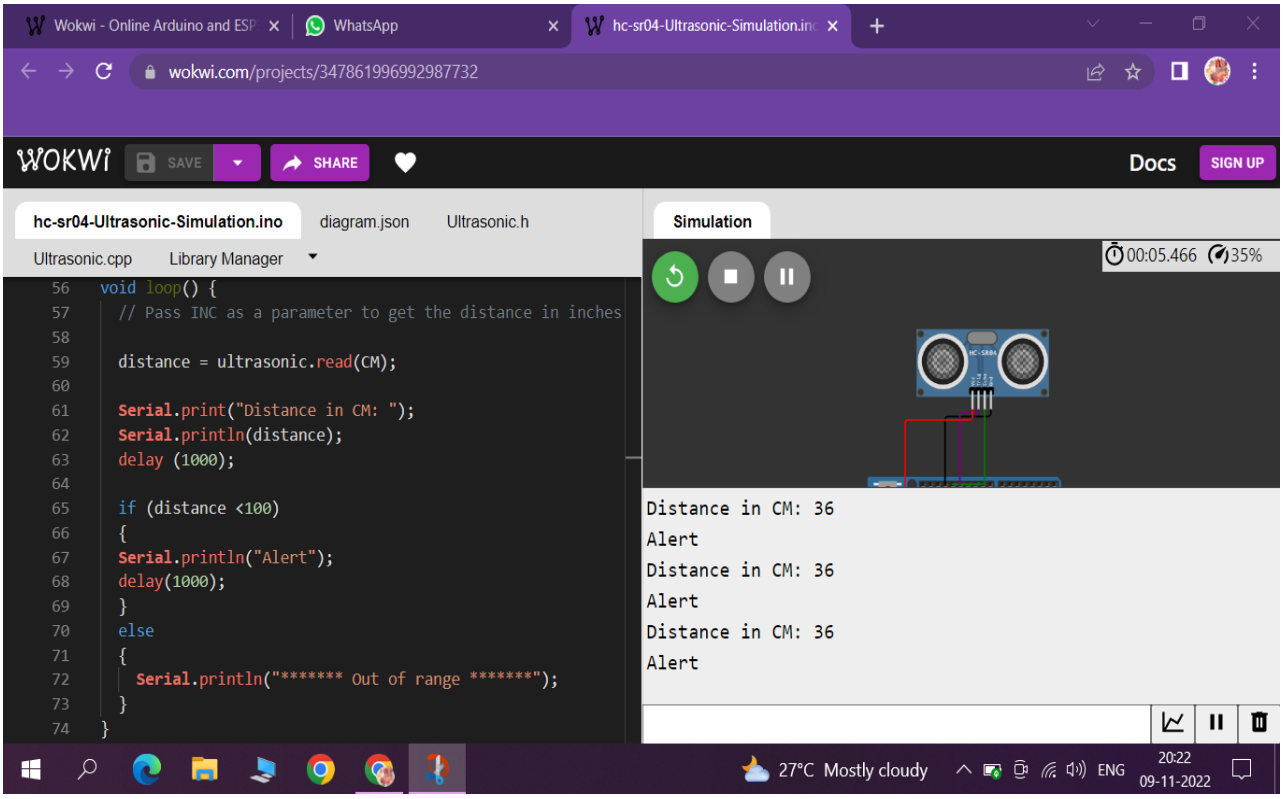
```
#include "Ultrasonic.h"

/*
   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 Trig =12;
int Echo = 13;
int distance;
void setup() {
  pinMode(Trig , OUTPUT);
  pinMode(Echo, INPUT );
  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);
  delay (1000);
   if (distance <100)
  {
  Serial.println("Alert");
  delay(1000);
  }
  else
  {
    Serial.println("*** Out of range ***");
  }
}
```

CASE 1: Distance less than 100cm

It Alerts



CASE 2: Distance more than 100cm

It won't Alert