ASSiGNMENT-4

DISTANCE MEASUREMENT USING ULTRASONIC SENSOR

DATE	03.11.2022
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MARK	2 Marks

Question 1;

Write code conections in wokwi for ultrasonic sensors.wherever distance is less than 200 cms send "alert" to ibm cloud and dispay in device recent events

SEE MY PROJECT IN WOKWI BY USING THIS LINK

https://wokwi.com/projects/312346565007114818

CODE;

```
#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);

  distance = ultrasonic.read(INC);

  Serial.print("Distance in Inches: ");
  Serial.println(distance);

  delay(1000);
}
```

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

Library Manager ▼

```
33     by Erick Simoes (github: @ErickSimoes | twitter: @AloErickSimoes)
34
35     This example code is released into the MIT License.
36 */
37
38 #include "Ultrasonic.h"
39
40 /*
41    Pass as a parameter the trigger and echo pin, respectively,
42    or only the signal pin (for sensors 3 pins), like:
43    Ultrasonic ultrasonic(13);
44 */
45 Ultrasonic ultrasonic(12, 13);
46 int distance;
47
48 void setup() {
49   Serial.begin(9600);
50 }
51
52 void loop() {
53   // Pass INC as a parameter to get the distance in inches
54
55   distance = ultrasonic.read(CM);
56
57   Serial.print("Distance in CM: ");
58   Serial.println(distance);
59
60   distance = ultrasonic.read(INC);
61
```

Simulation   ⏱00:01.600 ◔19%

Distance in CM: 104

Distance in Inches: 41

Distance in CM: 105

Distance in Inches: 41