

ASSIGNMENT 4

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| Date | 25 October 2022 |
| Team Id | PNT2022TMID14424 |
| Roll No | 711319EC136 |

Write code and connections in wowki 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(CM);
  Serial.print("Distance in CM: ");
  Serial.println(distance);
  if (distance < 100)
  Serial.print("alert");
  Serial.println();
  delay(1000);
}
```

OUTPUT :

W sketchino copy - Wokwi Arduino: X Important: Complete Signup: X +

wokwi.com/projects/346573495090545235

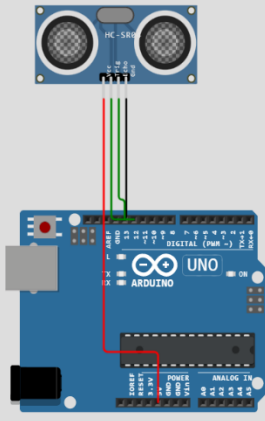
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Docs

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```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(12, 13);
3 int distance;
4 void setup() {
5   Serial.begin(9600);
6 }
7 void loop() {
8   distance = ultrasonic.read(CM);
9   Serial.print("Distance in CM: ");
10  Serial.println(distance);
11  if (distance < 100)
12    Serial.print("alert");
13    Serial.println();
14    delay(1000);
15 }
```

Simulation



alert
Distance in CM: 2
alert
Distance in CM: 183

Distance in CM: 183

Distance in CM: 357

15:11 26-10-2022