

ASSIGNMENT 4

Team ID	PNT2022TMID21659
Project	Signs With Smart Connectivity For Better Road Safety

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

Program Code:

```
#include "Ultrasonic.h"
```

```
Ultrasonic ultrasonic(6,2);
```

```
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(3000);
```

```
}
```

WOKWI

SAVE SHARE

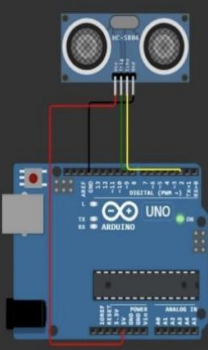
Docs

hc-sr04-Ultrasonic-Simulation.ino • diagram.json • Ultrasonic.h • Ultrasonic.cpp • Library Manager

```
1 #include "Ultrasonic.h"
2 ultrasonic ultrasonic(6,2);
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(3000);
15  }
16
```

Simulation

00:16.038 85%



Distance in CM: 317

Distance in CM: 162

Distance in CM: 47

alert