

Team ID	PNT2022TMID04624
Project Name	Project - IoT-Based Safety Gadget for Child Safety Monitoring and Notification
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Code:

```
#include "Ultrasonic.h"

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);
    if (distance < 100)
        Serial.print("alert");
    Serial.println();
    delay(1000);
}
```

Output:

The image shows the Wokwi IDE interface. On the left, the 'sketch.ino' file contains the following code:

```
1 #include "Ultrasonic.h"
2 Ultrasonic ultrasonic(12, 13);
3 int distance;
4
5 void setup() {
6   Serial.begin(9600);
7 }
8
9 void loop() {
10   // Pass inc as a parameter to get the distance in inches
11
12   distance = ultrasonic.read(CM);
13
14   Serial.print("Distance in CM: ");
15   Serial.println(distance);
16   if (distance < 100)
17     Serial.print("alert");
18     Serial.println();
19     delay(1000);
20 }
21
```

On the right, the 'Simulation' window shows a virtual Arduino Uno board with an ultrasonic sensor module connected. Below the board, the serial output is displayed:

```
Distance in CM: 30
alert
Distance in CM: 113
Distance in CM: 113
Distance in CM: 113
```

The simulation window also includes a status bar at the top right showing '00:28.766' and '56%'.