

ASSIGNMENT 4:

Date	27 th October 2022
Team ID	PNT2022TMID15034
Project Name	IOT Based Real-Time River Water Quality Monitoring and Control System

```
long int echoPin=2;
long int trigPin=3;
long duration;
int distance;
void setup()
{
    Serial.begin(9600);
    pinMode(3,OUTPUT);
    pinMode(2,INPUT);
}

void loop()
{
    digitalWrite(3,LOW);
    delayMicroseconds(2);
    digitalWrite(3,HIGH);
    delayMicroseconds(10);
    digitalWrite(3,LOW);

    duration=pulseIn(2,HIGH);
    distance=(duration*0.034/2);
    delay(1000);
    if (distance<=100)
    {
        Serial.println("ALERT The Distance is less than 100cm");
    }
}
```

WOKWI

SAVE

SHARE

AlertDevice.ino

Docs

sketch.ino

diagram.json

Library Manager

```
1 long int echoPin=2;
2 long int trigPin=3;
3 long duration;
4 int distance;
5 void setup()
6 {
7   Serial.begin(9600);
8   pinMode(3,OUTPUT);
9   pinMode(2,INPUT);
10 }
11
12 void loop()
13 {
14   digitalWrite(3,LOW);
15   delayMicroseconds(2);
16   digitalWrite(3,HIGH);
17   delayMicroseconds(10);
18   digitalWrite(3,LOW);
19
20   duration=pulseIn(2,HIGH);
21   distance=(duration*0.034/2);
22   delay(1000);
23   if (distance<=100)
24   {
25     Serial.println("ALERT The Distance is less than 100cm");
26   }
27 }
28
29 //TeamId : PNT2022TMID15034
30
```

Simulation

00:44.125 99%

Editing Ultrasonic Distance Sensor

Distance: 231cm

WOKWI

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Library Manager

```
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26   }
27 }
28
29 //TeamId : PNT2022TMID15034
30
```

Simulation

00:05.911 99%



Editing Ultrasonic Distance Sensor

Distance: 73cm

ALERT The Distance is less than 100cm
ALERT The Distance is less than 100cm
ALERT The Distance is less than 100cm
ALERT The Distance is less than 100cm
ALERT The Distance is less than 100cm

criteria. To get started, you can add devices by using the Add Device button, or by using API.

🔍 Search by Device ID

Device Simulator ☐  

Identity Device Information **Recent Events** State Logs X

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
distance	{"distance":150}	json	a few seconds ago
distance	{"distance":157}	json	a few seconds ago
distance	{"ALERT":28}	json	a few seconds ago
distance	{"distance":191}	json	a few seconds ago
distance	{"ALERT":94}	json	a few seconds ago