

ASSIGNMENT-1

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Wokwi link:

<https://wokwi.com/projects/363531865310924801>

Code:

```
// C++ code  
//  
int ultrasonic = 0;  
int pirsensor = 0;  
long readUltrasonicDistance(int triggerPin, int echoPin)  
{  
    pinMode(triggerPin, OUTPUT); // Clear the trigger
```

```

    digitalWrite(triggerPin, LOW);

    delayMicroseconds(2);

    // Sets the trigger pin to HIGH state for 10 microseconds

    digitalWrite(triggerPin, HIGH);

    delayMicroseconds(10);

    digitalWrite(triggerPin, LOW);

    pinMode(echoPin, INPUT);

    // Reads the echo pin, and returns the sound wave travel time in
    microseconds

    return pulseIn(echoPin, HIGH);
}

void setup()
{
    pinMode(4, INPUT);

    Serial.begin(9600);
}

void loop()
{
    pirsensor = digitalRead(4);

    ultrasonic = 0;

    0.01723 * readUltrasonicDistance(7, 6);

    Serial.println(pirsensor);

    Serial.println(ultrasonic);

    delay(10); // Delay a little bit to improve simulation
    performance
}

```

WOKWI CONNECTION:



