

## ASSIGNMENT-1

NAME : KARTHIKA K

NAAN MUDHALVAN ID : au613020106015

CLASS : III - ECE

COLLEGE : VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN, THIRUCHENGODE.

wokwi link:

<https://wokwi.com/projects/363502005122103297>

```
// 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);

  delay(300); // Wait for 300 millisecond(s)

  Serial.println(ultrasonic);

  delay(300); // Wait for 300 millisecond(s)

}
```

WOKWI CONNECTION:

