

## IOT ASSIGNMENT-3

**TO BUILD WOKWI PRODUCT, USING ULTRASONIC SENSOR AND TO DETECT THE DISTANCE FROM THE OBJECT**

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**<https://wokwi.com/projects/364782032685655041>**

**CODE :**

```
int t_p=5;
int e_p=18;
float ss=0.034;
long durn;
float dist_cm;
```

```

void setup() {

    Serial.begin(115200);
    pinMode(t_p,OUTPUT);
    pinMode(e_p,OUTPUT);

}

void loop()
{
    digitalWrite(t_p, LOW);
    delayMicroseconds(2);
    digitalWrite(t_p,HIGH);
    delayMicroseconds(10);
    digitalWrite(t_p, LOW);
    durn=pulseIn(e_p,HIGH);
    dist_cm=durn*ss/2;
    Serial.print("distance=");
    Serial.println(dist_cm);
    delay(1000);
}

```

## DIAGRAM.JSON

```

{
    "version": 1,
    "author": "LALITHA. M",

```

```

"editor": "wokwi",

"parts": [
  { "type": "wokwi-esp32-devkit-v1", "id": "esp", "top": 8, "left": -129.3,
"attrs": {} },

  {
    "type": "wokwi-hc-sr04",
    "id": "ultrasonic1",
    "top": 36.04,
    "left": 66.3,
    "attrs": { "distance": "239" }
  }
],

"connections": [
  [ "esp:TX0", "$serialMonitor:RX", "", [] ],
  [ "esp:RX0", "$serialMonitor:TX", "", [] ],
  [ "ultrasonic1:VCC", "esp:3V3", "red", [ "v0" ] ],
  [ "ultrasonic1:TRIG", "esp:D5", "green", [ "v79.6", "h-137.7", "v-102.67" ]
],

  [ "ultrasonic1:ECHO", "esp:D18", "green", [ "v92.93", "h-132.37", "v-123.33"
] ],

  [ "ultrasonic1:GND", "esp:GND.1", "black", [ "v0" ] ]
],

"dependencies": {}
}

```

## OUTPUT :

