

### ASSIGNMENT-3

NAME	Rajappa
ASSIGNMENT NAME	Build wowki product, use ultrasonic sensor and detect the distance from the object. Whenever distance is less than 100cms

LINK: <https://wokwi.com/projects/364438441883410433>

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WOKWI

assignment 3

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simulation

ESP32

esp:TX0

HC-5884

```
1 int t_p=5;
2 int e_p=18;
3 float ss=0.034;
4 long durn;
5 float dist_cm;
6
7 void setup() {
8   Serial.begin(115200);
9   pinMode(t_p, OUTPUT);
10  pinMode(e_p, INPUT);
11 }
12
13 void loop()
14 {
15   digitalWrite(t_p, LOW);
16   delayMicroseconds(2);
17   digitalWrite(t_p, HIGH);
18   delayMicroseconds(10);
19   digitalWrite(t_p, LOW);
20   durn=pulseIn(e_p, HIGH);
21   dist_cm=durn*ss/2;
22   Serial.print("distance= ");
23   Serial.println(dist_cm);
24   delay(1000);
25 }
```

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wokwi.com/projects/364345572469899265

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sketch.ino diagram.json Library Manager

```
1 int t_p=5;
2 int e_p=18;
3 float ss=0.034;
4 long durm;
5 float dist_cm;
6
7 void setup() {
8
9   Serial.begin(115200);
10   pinMode(t_p, OUTPUT);
11   pinMode(e_p, INPUT);
12
13 }
14
15 void loop()
16 {
17   digitalWrite(t_p, LOW);
18   delayMicroseconds(2);
19   digitalWrite(t_p, HIGH);
20   delayMicroseconds(10);
21   digitalWrite(t_p, LOW);
22   durm=pulseIn(e_p, HIGH);
23   dist_cm=durm*ss/2;
24   Serial.print("distance= ");
25   Serial.println(dist_cm);
26   delay(1000);
27 }
28
```

Simulation

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ESP32

HC-SR04

distance= 94.98  
distance= 94.98  
distance= 94.98  
distance= 94.98  
distance= 94.98  
distance= 94.98  
distance= 94.98

2:21 PM  
5/10/2023

## PROGRAM:

```
int t_p=5;
```

```
int e_p=18;
```

```
float ss=0.034;
```

```
long durm;
```

```
float dist_cm;
```

```
void setup() {
```

```
  Serial.begin(115200);
```

```
pinMode(t_p, OUTPUT);
```

```
pinMode(e_p, INPUT);
```

```
}
```

```
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);
```

```
}
```