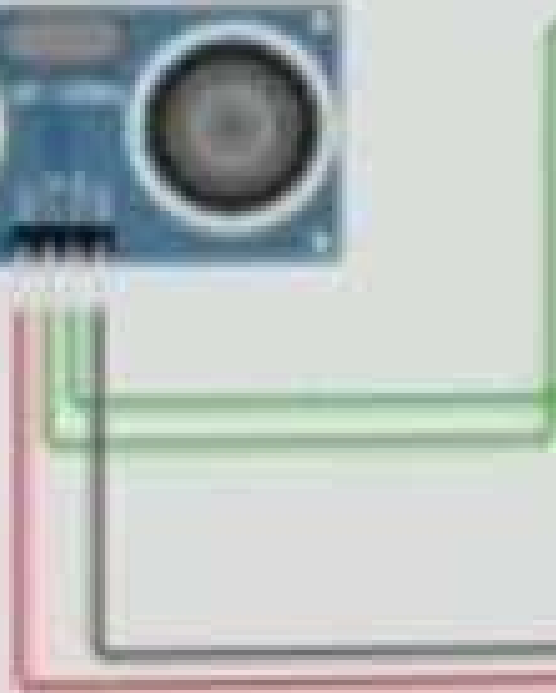
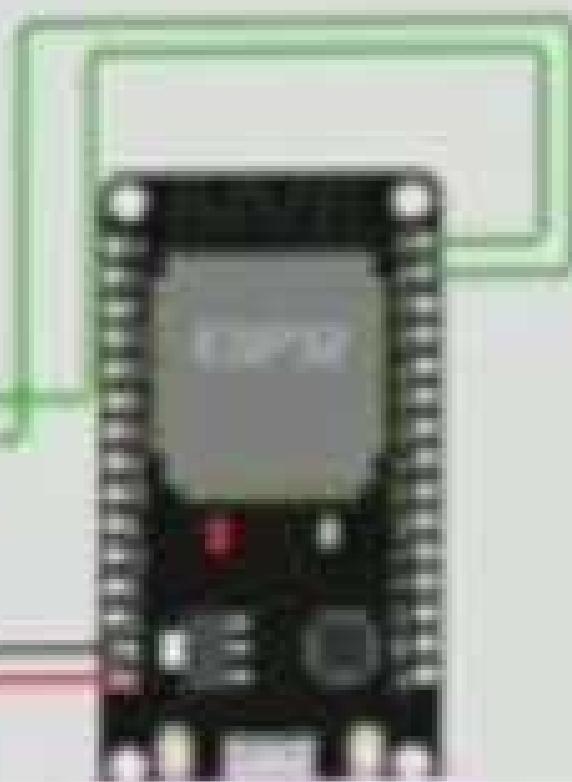


Simulation

00:00:00



Measurement: 100.48 cm  
Battery: 3.700 V

```
const int trigpin =5;  
const int echopin=18;
```

```
#define sound_speed 0.034 // cm/us
```

```
long duration;  
float distance;
```

```
void setup() {  
  // put your setup code here, to run  
  once:  
  Serial.begin(115200);  
  pinMode(trigpin,OUTPUT);  
  pinMode (echopin,INPUT);  
}
```

```
void loop() {  
  
  digitalWrite(trigpin,LOW);  
  //delayMicroseconds(10);  
  digitalWrite(trigpin,HIGH);  
  delayMicroseconds(10);  
  digitalWrite(trigpin,LOW);
```

```
duration =pulseIn(echopin,HIGH);
distance= duration*sound_speed/2;
Serial.println("distance"+String
(distance) +"cm");
if(distance<100)
{
    Serial.println("alert");
}
else
Serial.println("no object near");
// put your main code here, to run
repeatedly:
    // this speeds up the simulation
}
```

W sketch.ino - Wokwi Arduino and x (no subject) - nivedaj04@gmail.c x +

wokwi.com/projects/346668841702523475

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sketch.ino diagram.json Library Manager

```
1 const int trigpin =5;
2 const int echopin=18;
3
4 #define sound_speed 0.034 // cm/us
5
6 long duration;
7 float distance;
8
9 void setup() {
10 // put your setup code here, to run once:
11 Serial.begin(115200);
12 pinMode(trigpin,OUTPUT);
13 pinMode (echopin,INPUT);
14 }
15
16 void loop() {
17
18 digitalWrite(trigpin,LOW);
19 //delayMicroseconds(10);
20 digitalWrite(trigpin,HIGH);
21 delayMicroseconds(10);
22 digitalWrite(trigpin,LOW);
23
24 duration =pulseIn(echopin,HIGH);
25 distance= duration*sound_speed/2;
26 Serial.println("distance"+String (distance) +"cm");
```

Simulation

00:23.566 25%

HC-SR04

ESP32

distance82.98cm

alert

distance82.98cm

alert

distance82.98cm

alert

distance82.98cm

alert

sketch.zip

Show all

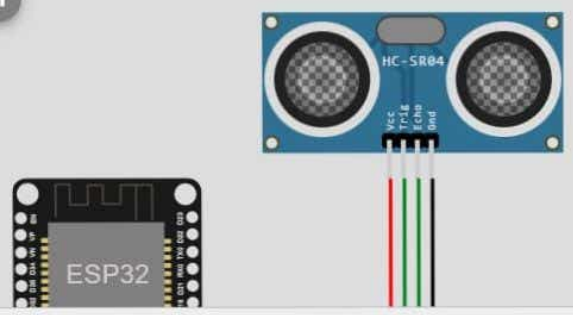
Type here to search

32°C Cloudy 5:23 PM 10/27/2022

```
sketch.ino diagram.json Library Manager
1 const int trigpin =5;
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23
24 duration =pulseIn(echopin,HIGH);
25 distance= duration*sound_speed/2;
26 Serial.println("distance"+String (distance) +"cm");
```

Simulation

00:02.266 42%



no object near  
distance139.99cm  
no object near  
distance139.94cm  
no object near  
distance139.82cm  
no object near