```
// Define the pins for the HC-SR04
int trigPin = 5;    // Trigger pin (GPIO5 for NodeMCU or GPIO23 for ESP32)
int echoPin = 4;    // Echo pin (GPIO4 for NodeMCU or GPIO22 for ESP32)
long duration;
int distance;

void setup() {
  // Initialize serial communication
  Serial.begin(115200);

  // Set the trigPin as output and echoPin as input
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
}

void loop() {
  // Ensure the trigger pin is low initially
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);

  // Send a 10-microsecond pulse to trigger the HC-SR04
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);

  // Measure the duration of the pulse on the echoPin
  duration = pulseIn(echoPin, HIGH);

  // Calculate the distance in centimeters
  distance = duration * 0.0344 / 2;  // Speed of sound = 0.0344 cm/us, divide by 2 for round trip

  // Print the distance to the Serial Monitor
  Serial.print("Distance: ");
  Serial.print(distance);
```

```
 Serial.println(" cm");


 delay(500);  // Delay between measurements
}
```