

```
#include<Servo.h>
const int pingPin = 7;
int servoPin = 8;
Servo servol;
void setup() {
 // initialize serial communication:
Serial.begin(9600);
  servol.attach(servoPin);
  pinMode(2,INPUT);
  pinMode (4, OUTPUT);
  pinMode (11, OUTPUT);
  pinMode (12, OUTPUT);
  pinMode (13, OUTPUT);
  pinMode (A0, INPUT);
  digitalWrite(2,LOW);
  digitalWrite(11, HIGH);
void loop() {
  long duration, inches, cm;
  pinMode(pingPin, OUTPUT);
  digitalWrite(pingPin, LOW);
  delayMicroseconds(2);
  digitalWrite(pingPin, HIGH);
  delayMicroseconds(5);
  digitalWrite(pingPin, LOW);
  // The same pin is used to read the signal from the PING))): a HIGH pulse
  // whose duration is the time (in microseconds) from the sending of the ping
  // to the reception of its echo off of an object.
  pinMode(pingPin, INPUT);
  duration = pulseIn(pingPin, HIGH);
  // convert the time into a distance
  inches = microsecondsToInches (duration);
  cm = microsecondsToCentimeters(duration);
  //Serial.print(inches);
  //Serial.print("in, ");
  //Serial.print(cm);
  //Serial.print("cm");
  //Serial.println();
  //delay(100);
```