

```
1  #include<Servo.h>
2  const int pingPin = 7;
3  int servoPin = 8;
4
5  Servo servo1;
6
7  void setup() {
8      // initialize serial communication:
9      Serial.begin(9600);
10     servo1.attach(servoPin);
11     pinMode(2,INPUT);
12     pinMode(4,OUTPUT);
13     pinMode(11,OUTPUT);
14     pinMode(12,OUTPUT);
15     pinMode(13,OUTPUT);
16     pinMode(A0,INPUT);
17     digitalWrite(2,LOW);
18     digitalWrite(11,HIGH);
19
20 }
21
22 void loop() {
23
24     long duration, inches, cm;
25
26     pinMode(pingPin, OUTPUT);
27     digitalWrite(pingPin, LOW);
28     delayMicroseconds(2);
29     digitalWrite(pingPin, HIGH);
30     delayMicroseconds(5);
31     digitalWrite(pingPin, LOW);
32
33     // The same pin is used to read the signal from the PING))) : a
```