

## Assignment 1

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C Online Compiler

main.c



Run

```
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
```

main.c



Run

```

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
        HIGH pulse
34      // whose duration is the time (in microseconds) from the sending
        of the ping
35      // to the reception of its echo off of an object.
36      pinMode(pingpin, INPUT);
    
```

main.c



Run

```

33 // the same pin is used to read the signal from the PING))) a
    HIGH pulse
34 // whose duration is the time (in microseconds) from the sending
    of the ping
35 // to the reception of its echo off of an object.
36 pinMode(pingpin, INPUT);
37 duration = pulseIn(pingpin, HIGH);
38
39 // convert the time into a distance
40 inches = microsecondsToInches(duration);
41 cm = microsecondsToCentimeters(duration);
42
43 //serial.print(inches);
44 //serial.print("in, ");
45 //serial.print(cm);
46 //serial.print("cm");
47 //serial.printIn();
48 //delay(100);
49 }
50
51
52
53

```



C Online Compiler



Output

Clear



```
gcc /tmp/ODDP2evGlm.c -lm
```

```
/tmp/ODDP2evGlm.c:1:9: fatal error: servo.h: No such file or directory
```

```
  1 | #include<servo.h>
```

```
    |           ^~~~~~
```

```
compilation terminated.
```



JS

