```
// C++ code
//
void setup()
{
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop()
{
  digitalWrite(LED_BUILTIN, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(LED_BUILTIN, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

https://forum.arduino.cc/t/how-to-make-a-servo-sweep-once-back-and-forth-with-the-same-keyboard-key/526048

```
#include<Servo.h> // include server library
Servo ser; // create servo object to control a servo
int poser = 0; // initial position of server
int val; // initial value of input

void setup() {
  Serial.begin(9600); // Serial comm begin at 9600bps
  ser.attach(9);// server is connected at pin 9
}

void loop() {
  if (Serial.available()) // if serial value is available
  {
    val = Serial.read();// then read the serial value
    if (val == 'd') //if value input is equals to d
    {
      poser += 180; //than position of servo motor increases by 180 ( anti clockwise)
      ser.write(poser);// the servo will move according to position
      delay(10);//delay for the servo to get to the position
     }
    if (val == 'a') //if value input is equals to a
    {
      poser -= 180; //than position of servo motor decreases by 180 (clockwise)
      ser.write(poser);// the servo will move according to position
      delay(10);//delay for the servo to get to the position
    }
  }
}
```

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Final code, press d to move back and forth

```
#include<Servo.h> // include server library
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int poser = 0; // initial position of server
int val; // initial value of input

void setup() {
  Serial.begin(9600); // Serial comm begin at 9600bps
  ser.attach(9);// server is connected at pin 9
}

void loop() {
  if (Serial.available()) // if serial value is available
  {
    val = Serial.read();// then read the serial value
    if (val == 'd' && poser > 0) //if value input is equals to d and the position is 0
    {
      poser += 180; //than position of servo motor increases by 180 ( anti clockwise)
      ser.write(poser);// the servo will move according to position
      delay(15);//delay for the servo to get to the position
     }
    else if (val == 'd' && poser > 0) //if value input is equals to d and the position is greater
than 0
    {
      poser -= 180; //than position of servo motor decreases by 180 (clockwise)
      ser.write(poser);// the servo will move according to position
      delay(15);//delay for the servo to get to the position
    }
  }
}
```

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```
void setup() {
  Serial.begin(9600); // Serial comm begin at 9600bps
  ser.attach(9);// server is connected at pin 9
}

void loop() {
  if (Serial.available()) // if serial value is available
  {
    val = Serial.read();// then read the serial value
    if (val == 'd' && poser > 0) //if value input is equals to d and the position is 0
    {
      poser += 180; //than position of servo motor increases by 180 ( anti clockwise)
      ser.write(poser);// the servo will move according to position
      delay(15);//delay for the servo to get to the position
     }
    else if (val == 'd' && poser > 0) //if value input is equals to d and the position is greater
than 0
    {
      poser -= 180; //than position of servo motor decreases by 180 (clockwise)
      ser.write(poser);// the servo will move according to position
      delay(15);//delay for the servo to get to the position
    }
  }
}
```