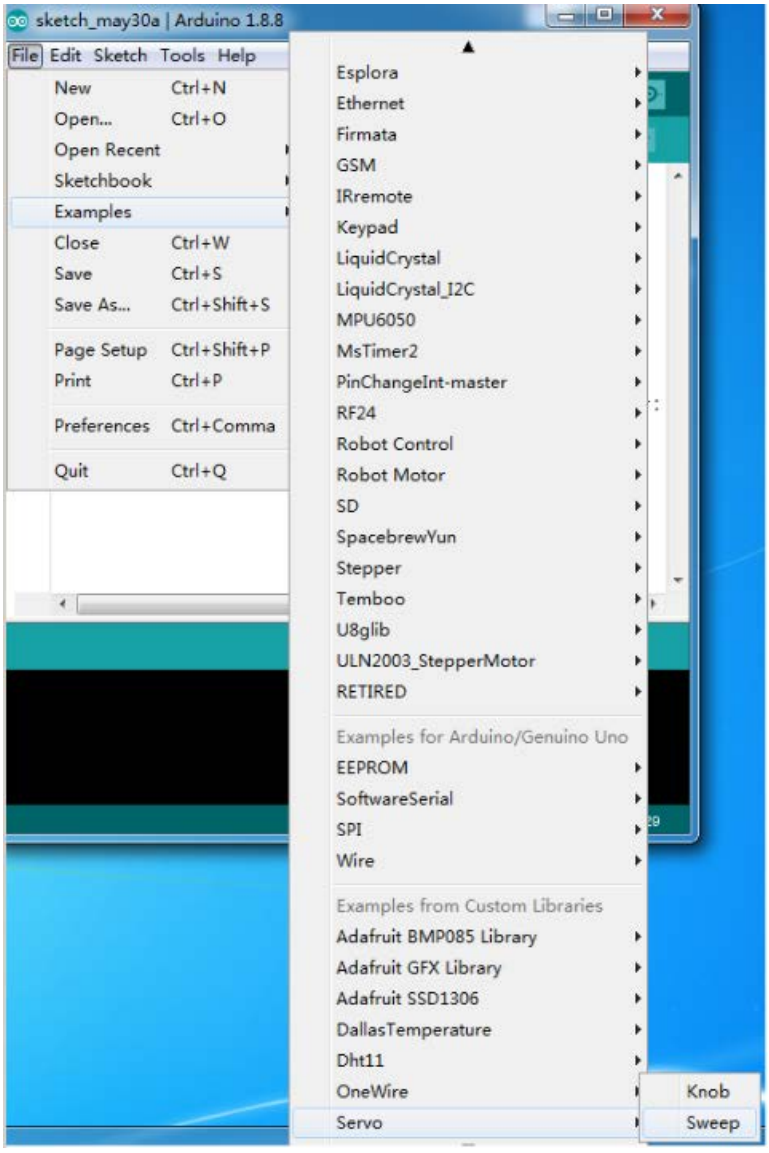
Testing MG90S Micro Servo by Arduino

1. Set up the environment for Arduino to run

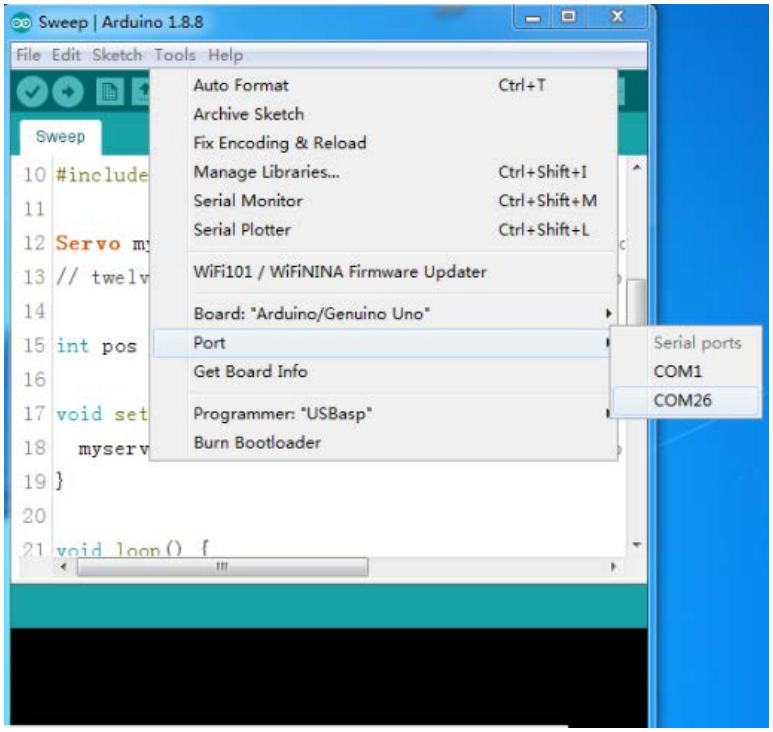
1.1Please refer to the documentation“4WD Car Chassis Kit Tutorial \2 Configuring the Operating Environment For Arduino”

2. Upload the servo test program to the UNO R3 board

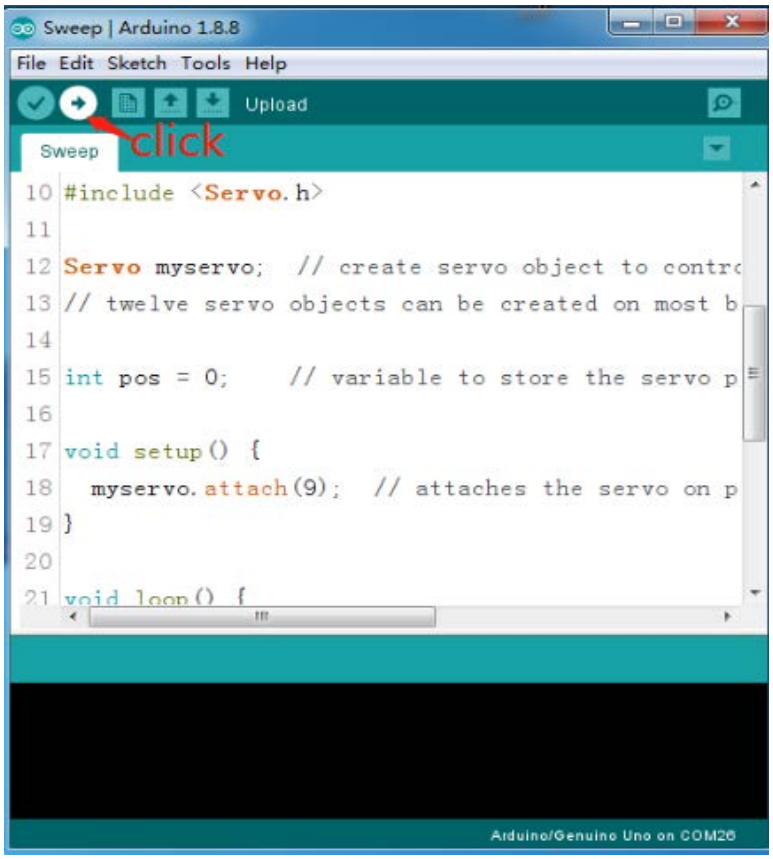
2.1 After the Arduino IDE is installed, double-click the Arduino IDE shortcut on the desktop to start the IDE interface, and then click "File--Examples--Servo--Sweep" to enable the sample program



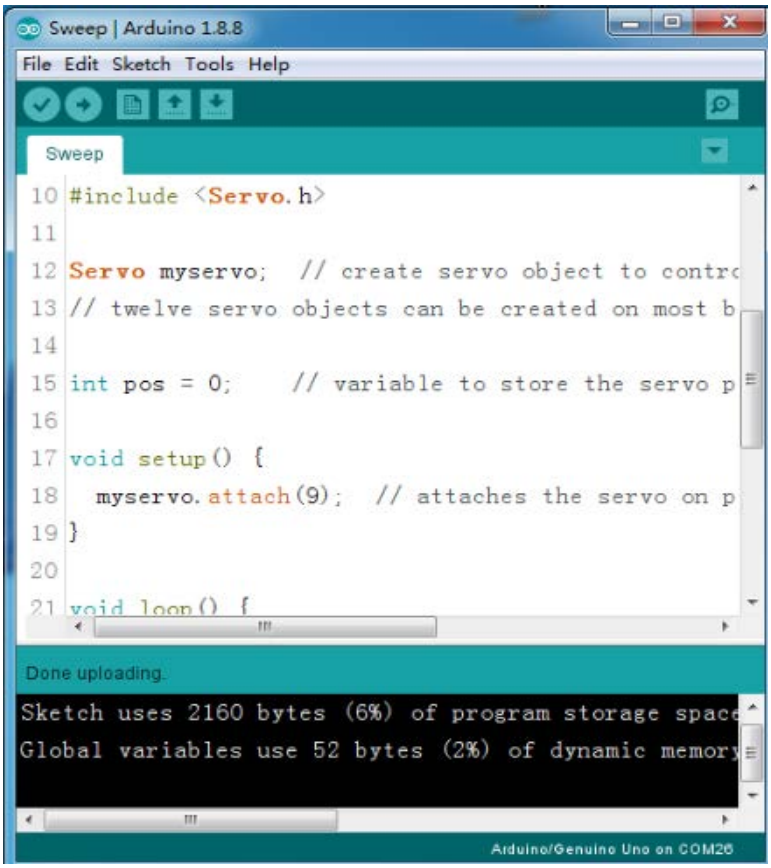
2.2 Connect the Arduino UNO board to the computer through a USB cable, click the Tools--Port menu with the mouse, and select the Serial ports corresponding to the UNO board. This example here is com26.



2.3 Click the "upload" button on the IDE interface to start uploading the Sweep program to the UNO board.



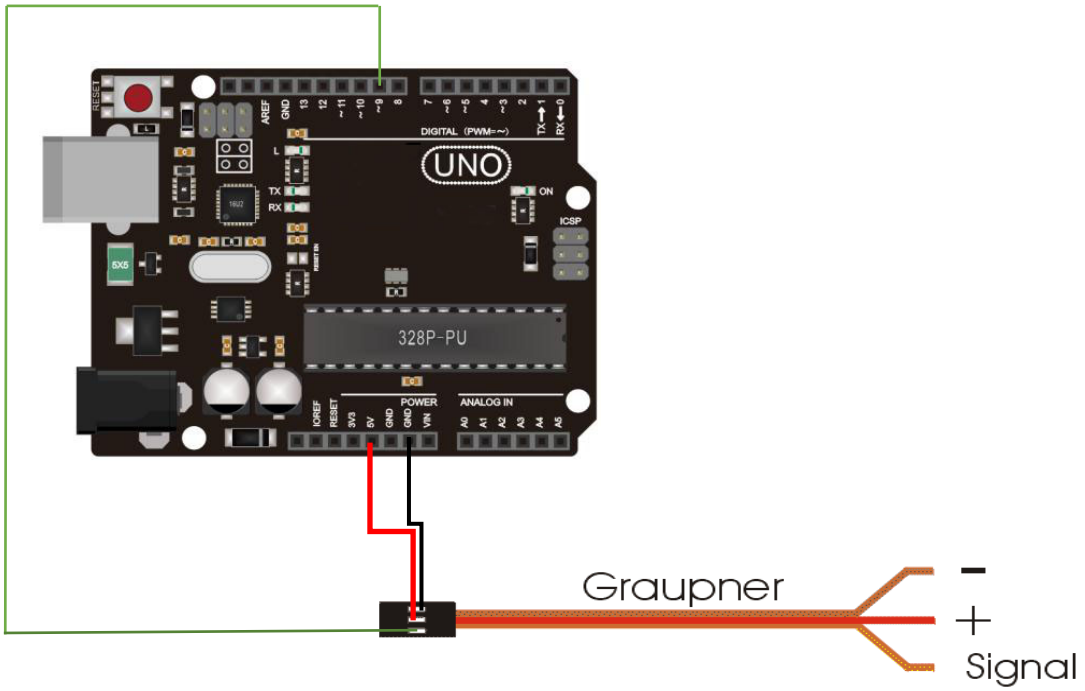
2.4 "done uploading" will be displayed when the program upload is completed.



3.Test the Servo

3.1 Connect the yellow signal pin of the MG90S Micro Servo to pin9 of the UNO board through a DuPont cable, connect the red VCC pin of the MG90S Micro Servo to the 5V of the UNO board, and connect the brown GND pin of the MG90S Micro Servo to the GND of the UNO board.

Circuit connection diagram:



3.2 You can directly power the UNO board through the USB cable connection, or you can use two 18650 batteries to power it. After the code is powered on, you can see that the MG90S Micro Servo rotates 180 degrees in a loop.

3.3 Code

```
#include <Servo.h>
Servo myservo;
int pos = 0;
void setup() {
  myservo.attach(9);
}
void loop() {
  for (pos = 0; pos <= 180; pos += 1) {
    myservo.write(pos);
    delay(15);
  }
  for (pos = 180; pos >= 0; pos -= 1) {
    myservo.write(pos);
    delay(15);
  }
}
```

What's Next?

THANK YOU for participating in this learning experience!

If you find errors, omissions or you have suggestions and/or questions about this lesson, please feel free to contact us: cokoino@outlook.com

We will make every effort to make changes and correct errors as soon as feasibly possible and publish a revised version.

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