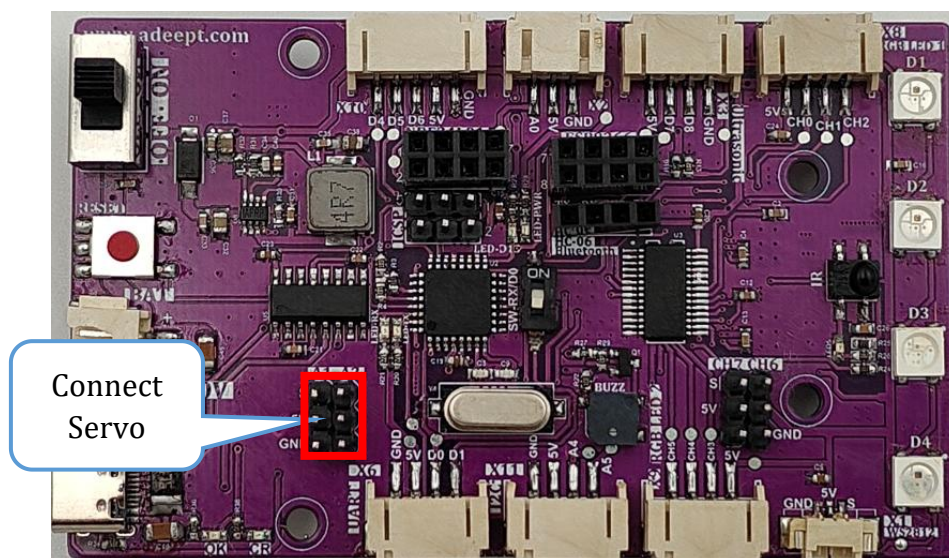


Adjust the initial angle of the servo

It is recommended to assemble the car after seeing Lessons 1-12.

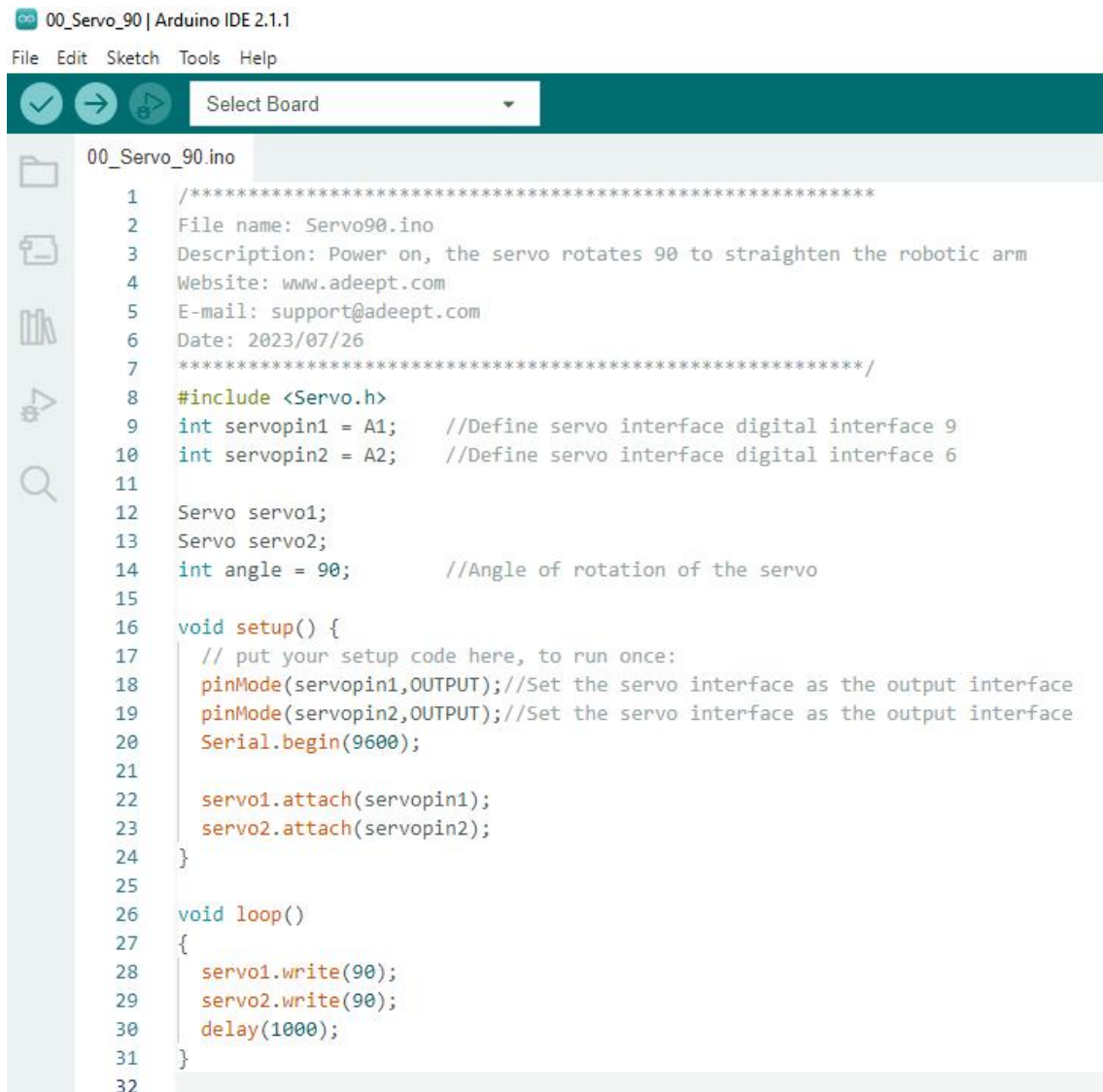
Before assembling the servo rocker arm, it's recommended to power on the servo and control the servo shaft to rotate to the initial position, so then the rocker arm installed at a specific angle will be in the initial position (90°).

The 180° servo module needs to be connected to the servo port on the Adeept Robot Control Board. The yellow line is connected to the yellow pin, the red line is connected to the red pin, and the brown line is connected to the black pin, as shown in the figure below (connected to pin P0):



Run the program

1. Connect your computer and Adeept Robot Control Board with a USB cable.
2. Open "00_Servo_90" folder in `/Code`, double-click `00_Servo_90.ino`.



```
00_Servo_90 | Arduino IDE 2.1.1
File Edit Sketch Tools Help

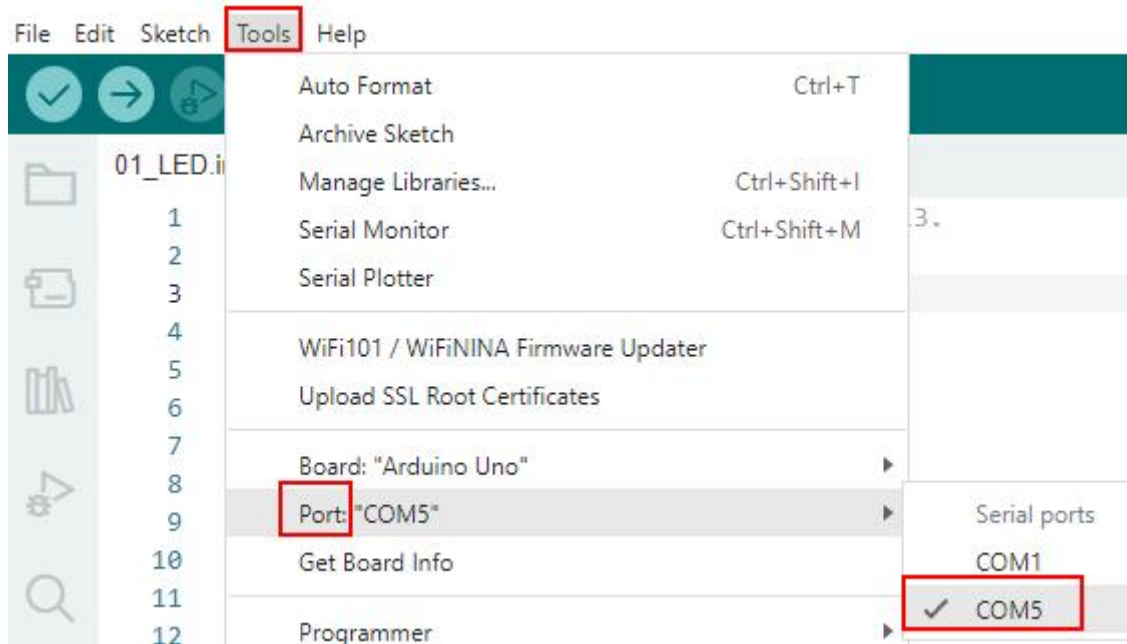
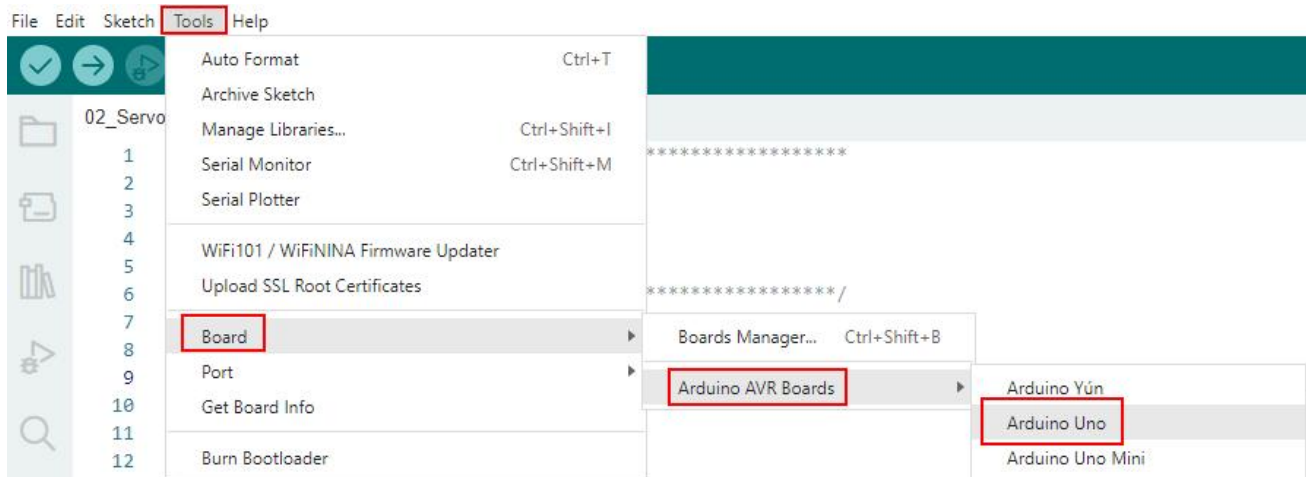
00_Servo_90.ino
1  /*****
2  File name: Servo90.ino
3  Description: Power on, the servo rotates 90 to straighten the robotic arm
4  Website: www.adeept.com
5  E-mail: support@adeept.com
6  Date: 2023/07/26
7  *****/
8  #include <Servo.h>
9  int servopin1 = A1;    //Define servo interface digital interface 9
10 int servopin2 = A2;    //Define servo interface digital interface 6
11
12 Servo servo1;
13 Servo servo2;
14 int angle = 90;        //Angle of rotation of the servo
15
16 void setup() {
17     // put your setup code here, to run once:
18     pinMode(servopin1,OUTPUT); //Set the servo interface as the output interface
19     pinMode(servopin2,OUTPUT); //Set the servo interface as the output interface
20     Serial.begin(9600);
21
22     servo1.attach(servopin1);
23     servo2.attach(servopin2);
24 }
25
26 void loop()
27 {
28     servo1.write(90);
29     servo2.write(90);
30     delay(1000);
31 }
32
```


3. Select development board and serial port.

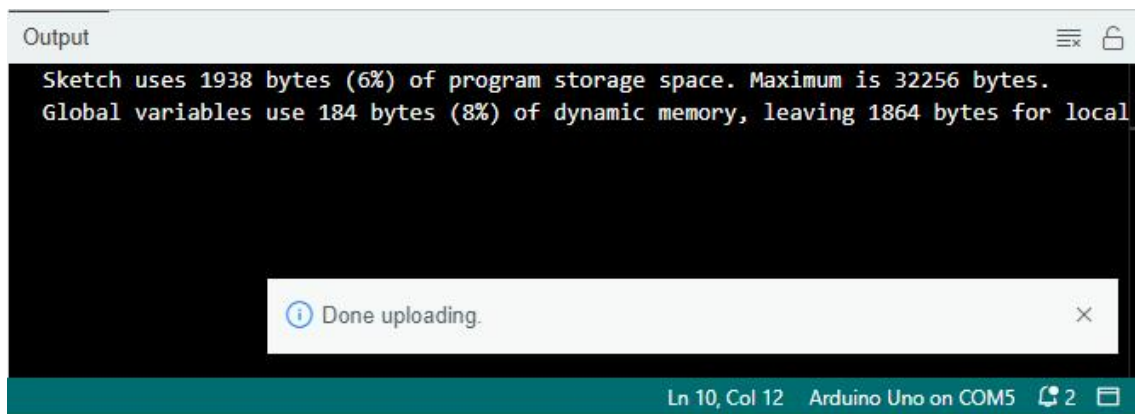
Board: Tools--->Board--->Arduino AVR Boards--->Arduino Uno

Port: Tools --->Port--->COMx

Note: The port number will be different in different computers.



4. After opening, click  to upload the code program to the Arduino. If there is no error warning in the console below, it means that the Upload is successful.



5. After successfully running the program, the servo will turn to the 90 degree position(the rotation range of the servo is 0-180 °). If a rocker arm is installed on the servo shaft, the rocker arm will not rotate when the rocker arm is gently moved by hand.

All servos need to be adjusted to 90 degrees before installation.

Do not rotate the servo shaft before successfully installing the servo, otherwise the initial angle of the servo needs to be readjusted.