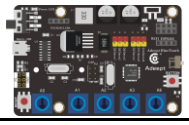
Servo 90-degree adjustment

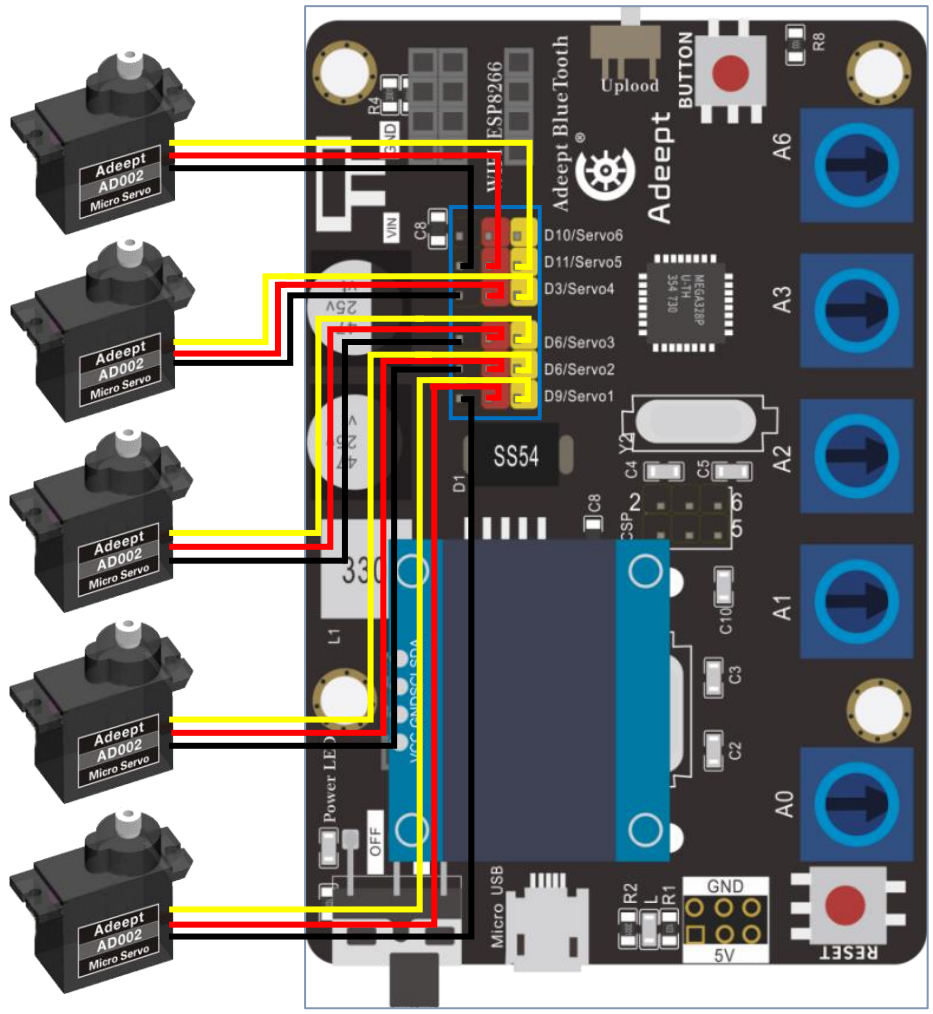
Before assembling the Robotic Arm, we first need to adjust the 5 servos of the Robotic Arm by 90 degrees.

1. Components used in this course

Components	Quantity	Picture
Adeept Arm Drive Board	1	
Micro USB Cable	1	
Servo	5	

2. Wiring diagrams (Circuit diagram)

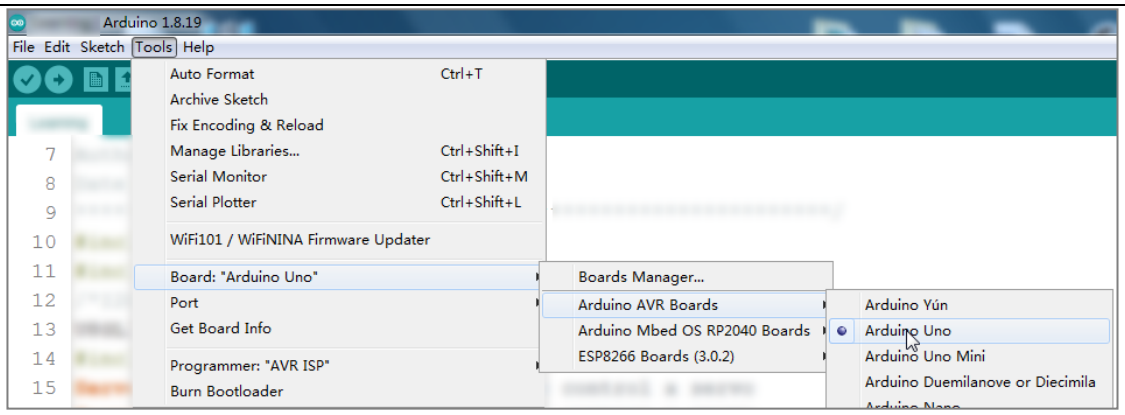
Connect 5 servos to the Servo1, Servo2, Servo3, Servo4, Servo5 ports on the Adeept Arm Drive Board:



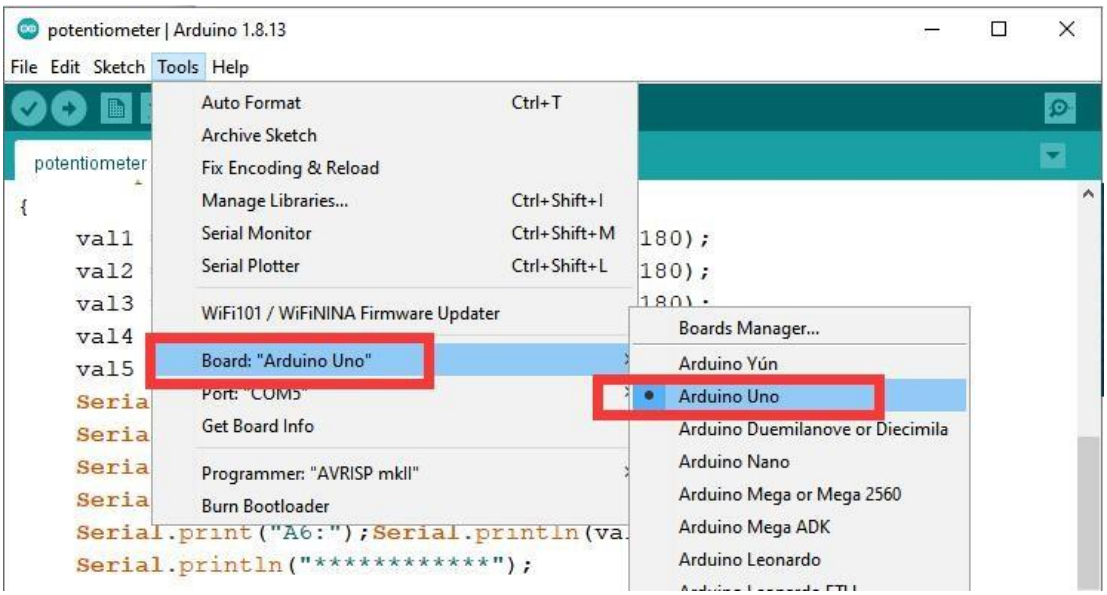
3. Upload the Servo90.ino

1. Open the Arduino IDE, as shown below:

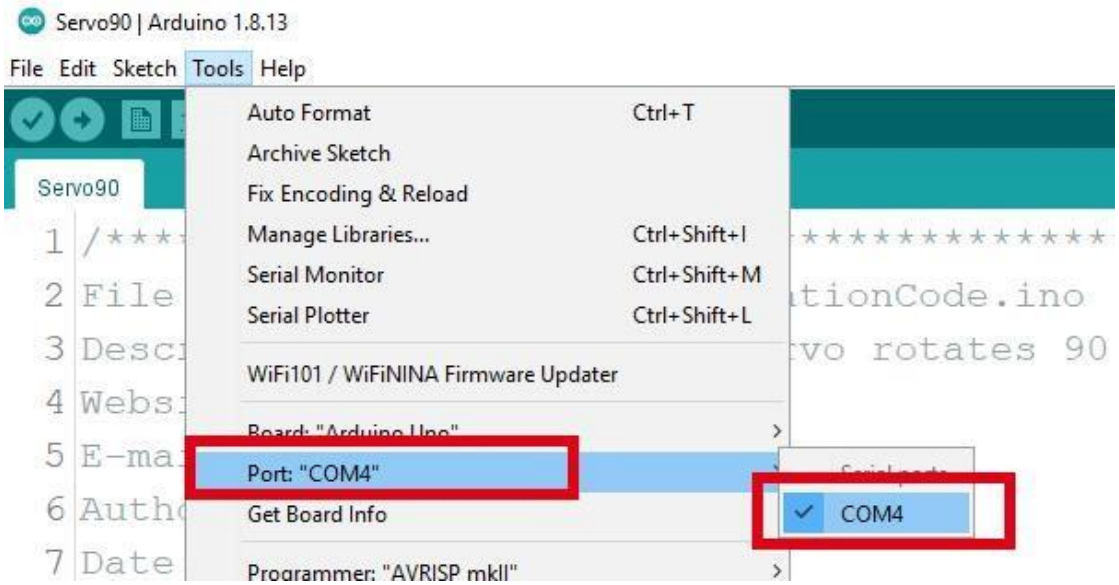
2. In the Tools toolbar, find Board and select Arduino Uno, as shown below:


Arduino 1.8.19
File Edit Sketch Tools Help
Auto Format Ctrl+T
Archive Sketch
Fix Encoding & Reload
Manage Libraries... Ctrl+Shift+I
Serial Monitor Ctrl+Shift+M
Serial Plotter Ctrl+Shift+L
WiFi101 / WiFiNINA Firmware Updater
Board: "Arduino Uno"
Port
Get Board Info
Programmer: "AVR ISP"
Burn Bootloader
Boards Manager...
Arduino AVR Boards
Arduino Mbed OS RP2040 Boards
ESP8266 Boards (3.0.2)
Arduino Yún
Arduino Uno
Arduino Uno Mini
Arduino Duemilanove or Diecimila

Or:

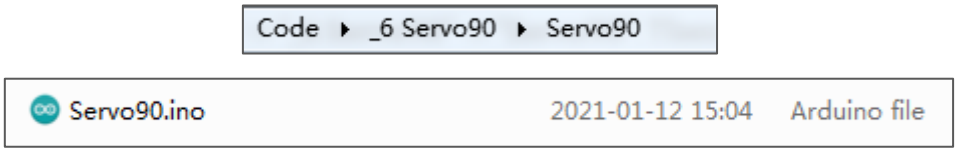

potentiometer | Arduino 1.8.13
File Edit Sketch Tools Help
potentiometer
Auto Format Ctrl+T
Archive Sketch
Fix Encoding & Reload
Manage Libraries... Ctrl+Shift+I
Serial Monitor Ctrl+Shift+M
Serial Plotter Ctrl+Shift+L
WiFi101 / WiFiNINA Firmware Updater
Board: "Arduino Uno"
Port: "COM5"
Get Board Info
Programmer: "AVRISP mkII"
Burn Bootloader
Boards Manager...
Arduino Yún
Arduino Uno
Arduino Duemilanove or Diecimila
Arduino Nano
Arduino Mega or Mega 2560
Arduino Mega ADK
Arduino Leonardo

3. In the Tools toolbar, find “Port” and Select the port number of the Adeept Arm Drive Board, as shown below:

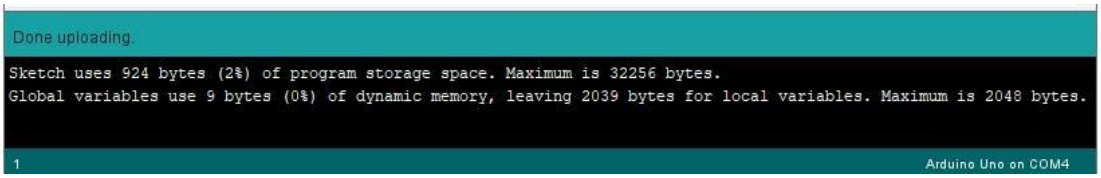


4. Click Open in the File drop-down menu:

5. Find **the Package of Documentation** (Reference: Chapter: "_4 build Arduino development environment", step 2 under subsection (3) under subsection 5) that we provide to the user. Open the directory in sequence: “Code” -> “_6 Servo90” -> “Servo90”. Then select the code file "Servo90.ino" and click the "Open" button.



6. After opening, click  to upload the code program to the Adeept Arm



Drive Board. If there is no error warning in the console below, it means that the Upload is successful.

7. After successfully running the program, you will see that all the servos will turn to 90 degrees.

【Note】:

For the adjusted servos, it is forbidden to rotate them when assembling the Robotic Arm, otherwise it will cause errors in the Assembly of the Robotic Arm.

8. Now you can proceed to the assembly operation of Lesson 5