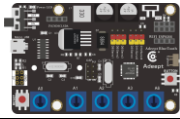




Servo 90-degree adjustment

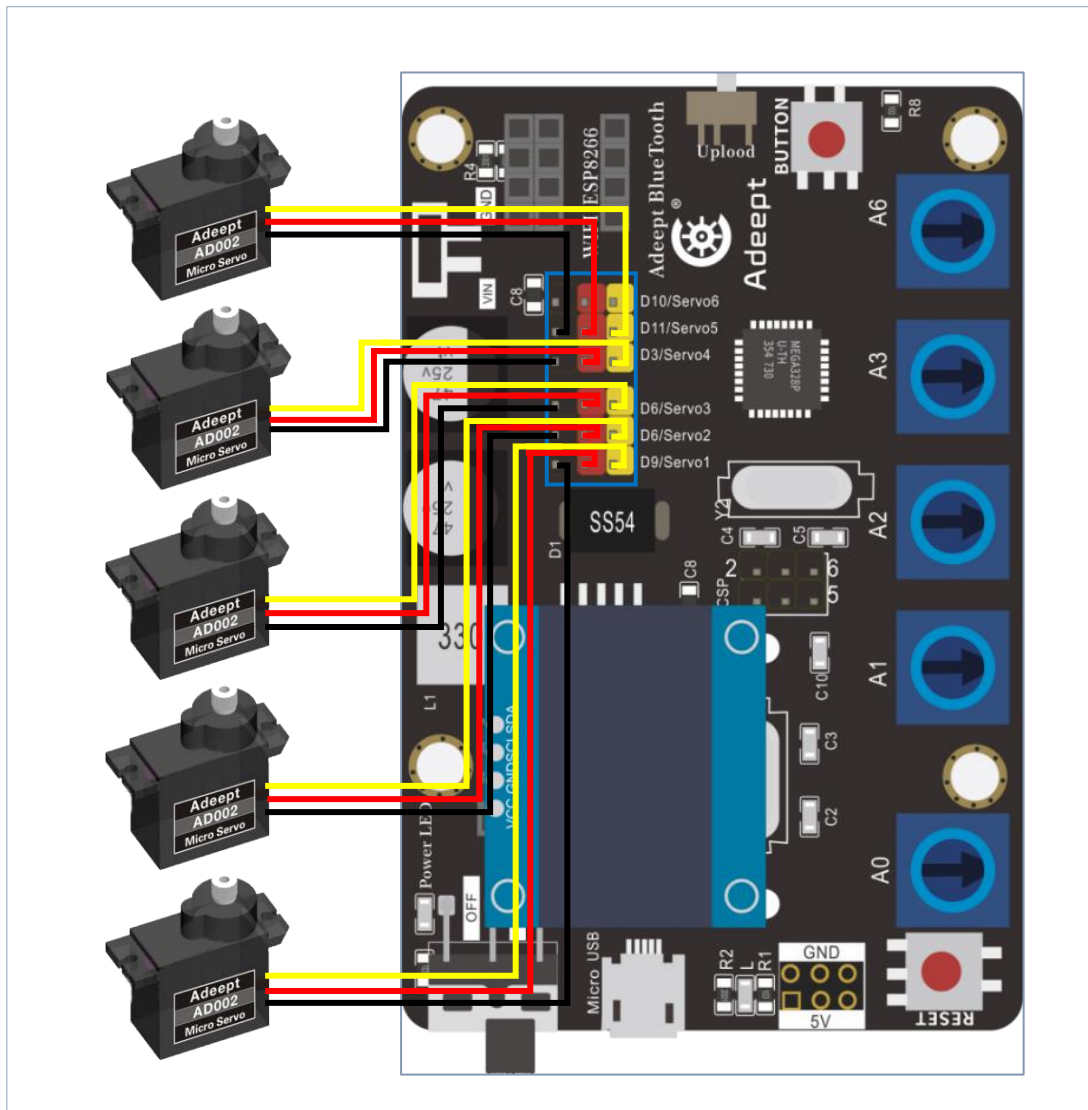
Before assembling the robotic arm, we first need to adjust the 5 servos of the robotic arm by 90 degrees.

1. Components used in this course

Components	Quantity	Picture
Adept 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 Adept Arm Drive Board:

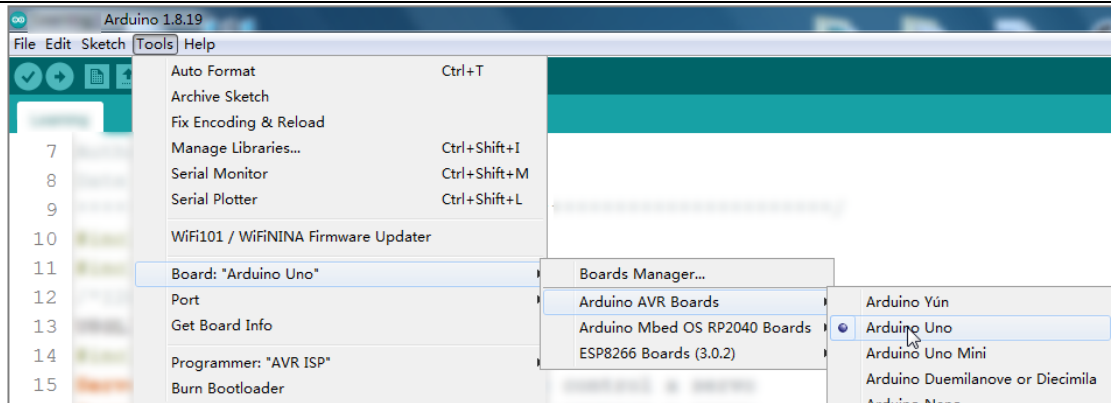


3. Upload the Servo90.ino

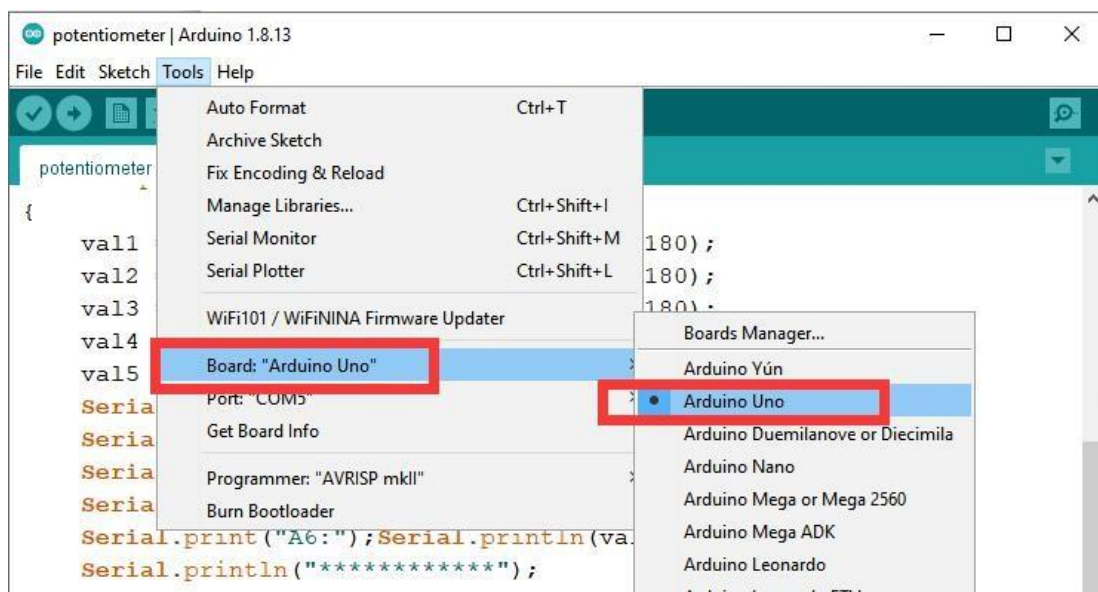
1. Open the Arduino IDE software, as shown below:



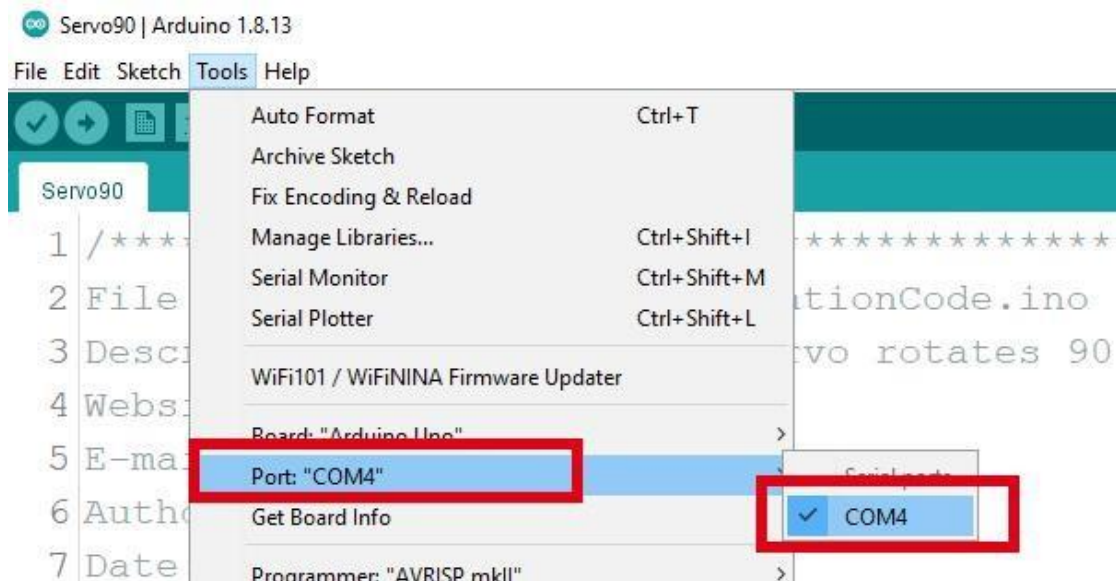
2. In the Tools toolbar, find Board and select Arduino Uno, as shown below:



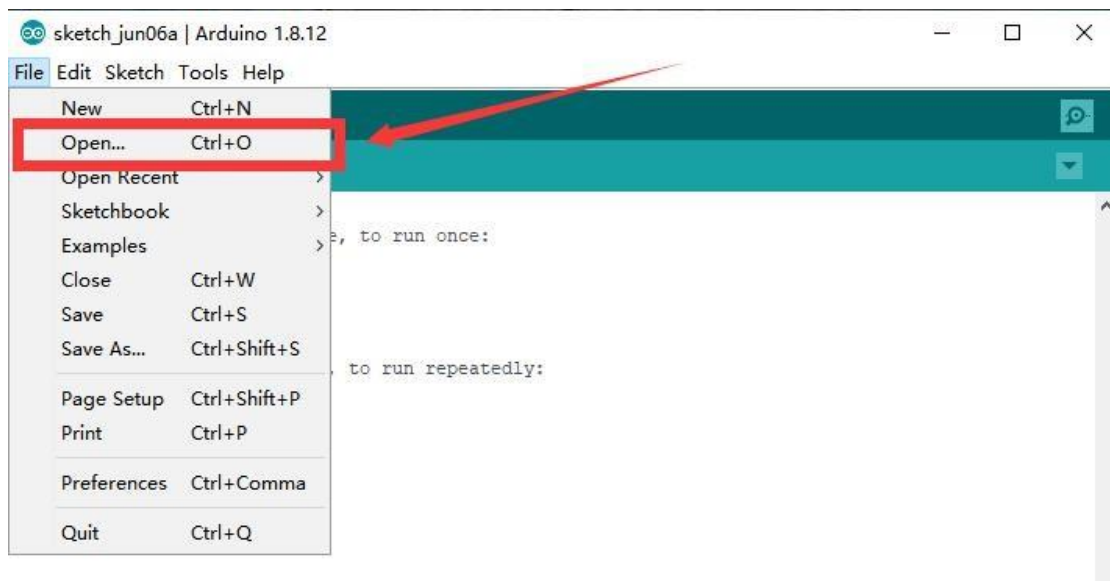
Or:



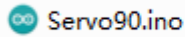
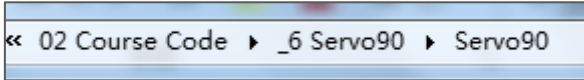
3. In the Tools toolbar, find “Port” and Select the port number of The Adeept Arm Drive Board, as shown below:



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



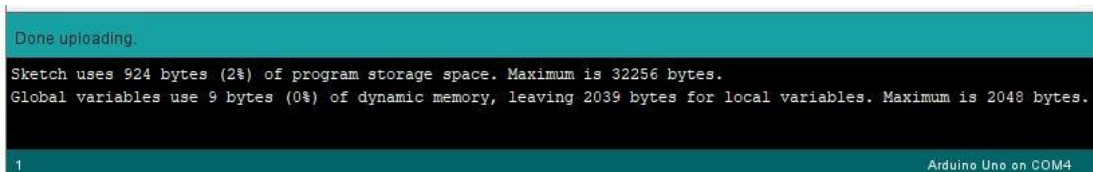
5. Find **the Package of Documentation** (Reference: Chapter 4, near Page 12 of this section, subsection 5, step (4)) that we provide to the user. Open the directory in sequence: “02 Course Code” -> “_6 Servo90” -> “Servo90”. Then select the code file “Servo90.ino” and click the “Open” button.



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Arduino file

6. After opening, click  to upload the code program to the Aadept 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 6