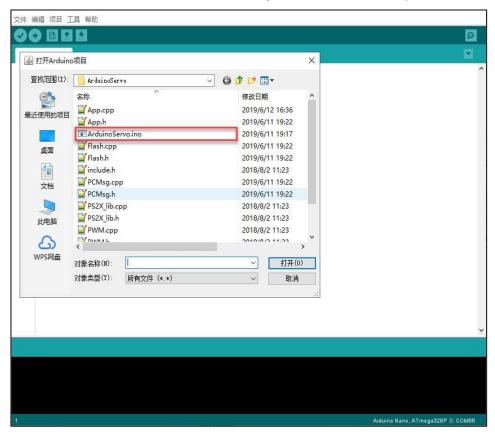
Lesson 2 Program Compilation and Download

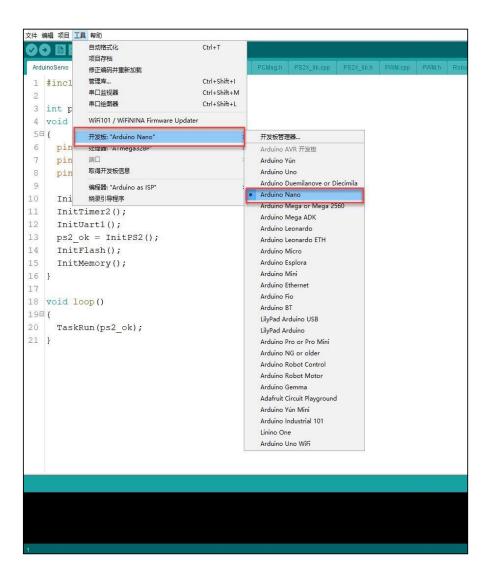
1. Program Compilation

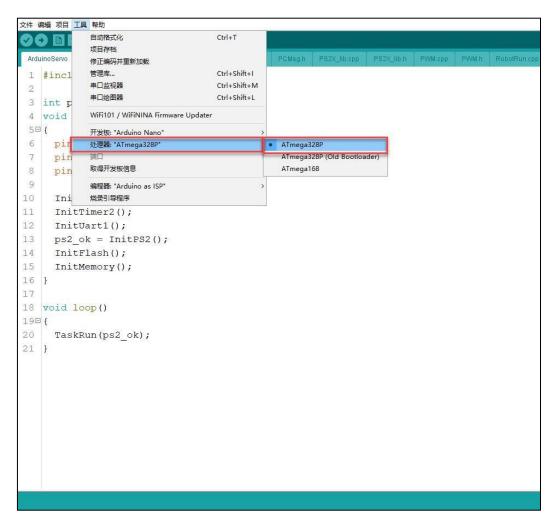
To generate the program that can run in the controller, we need to compile the readable code into the command that can be recognized by robot through Arduino IDE.

- 1) Double-click to open "Arduino IDE".
- Select "ArduinoServo.ino" in folder "5. Sample Code/Arduino
 Nano/Arduino source code/ArduinoServo), and then click "Open".

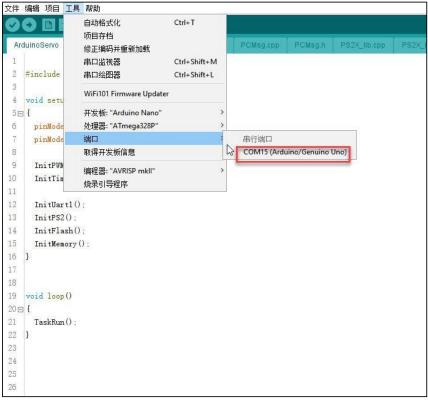


3) Confirm the selection of the development board and the port on toolbar. Select the development board "Arduino Nano" and the processor "ATmega328P" in "Tool-> Development board/ Processor".

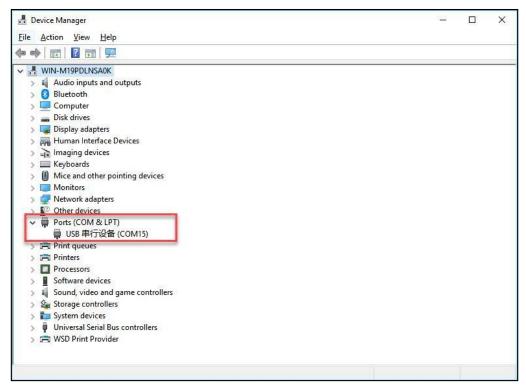




4) Select the corresponding port to Arduino controller in "Tool ->port". (The export port here is COM15. Please choose the port according to your own computer because different computer may different. If COM1 appears in port options, it is generally a system communication port not the actual port of development board.)



5) If the computer is connected to multiple USB device and cannot determine the connection port of Arduino controller, you can open "your computer" on your desktop and then click "Property -> Device Management" to check the corresponding port of the Arduino controller.



6) Click button after setting the development board, processor and port. If the program is correct, the debugging area will display "compiling program.." and "compiling complete", and the debugging prompt area will show the number of bytes used by the current project, the occupied program storage space, etc.



2. Program Download

 After compiling, download the hex file generated in the previous step into the Arduino development board. Click to download the program.





2) When uploading prompt is displayed, you need to press the white reset button on the Arduino Nano board immediately, and then wait for the program to be burned. After the program is downloaded, the debug status bar will show that the upload is successful.



If fail to download, you can try to choose the processor model to "ATmega328p (Old Bootloader)".

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