Lesson 10 -Controlled by The IR Remote Control
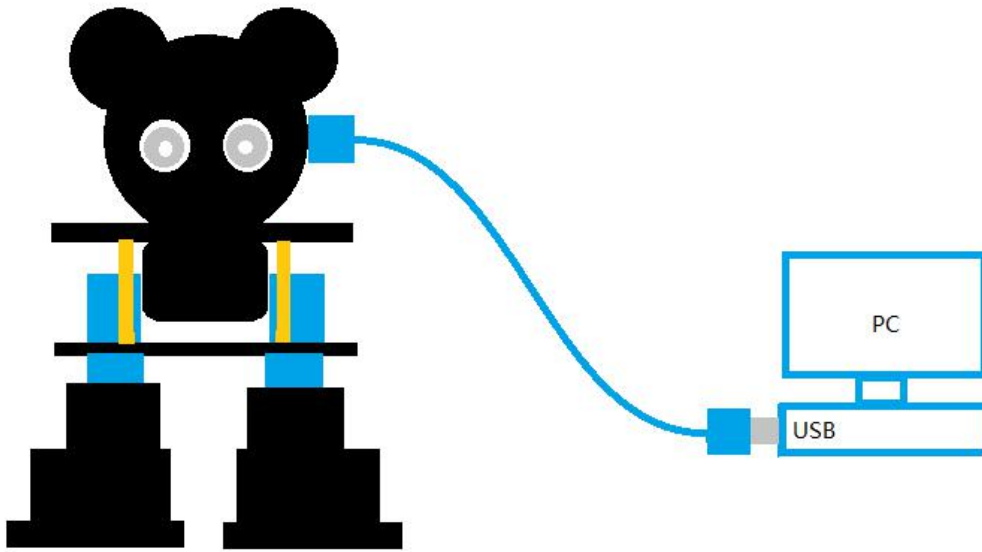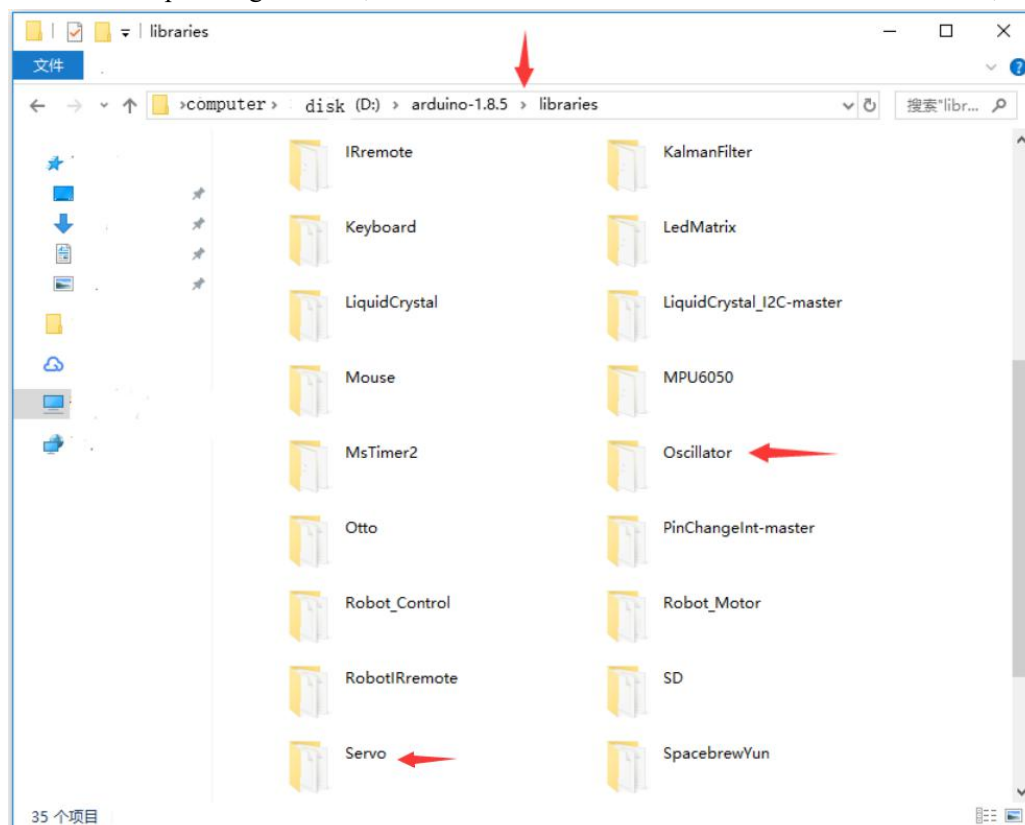
Need to prepare:

◆ An assembled robot
◆ A USB cable
◆ A computer with a reliable network
◆ 2 18650 batteries
◆ A IR Remote Control

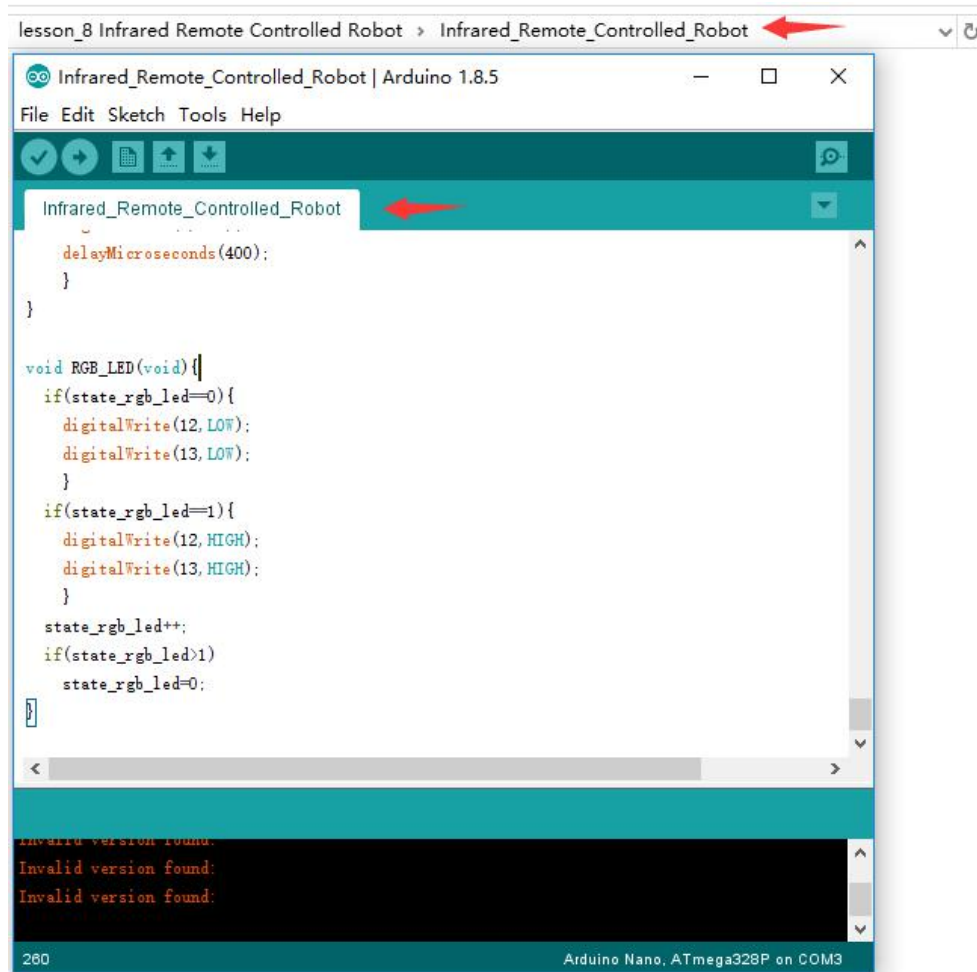1. Connect the nano of the robot to the PC with usb Cable

2. Copy the "Servo" library file under the "libraries" folder to the "libraries" folder of the ardino IDE.

Note: When uploading the code, the Bluetooth module cannot be connected to the robot, otherwise the code cannot be uploaded
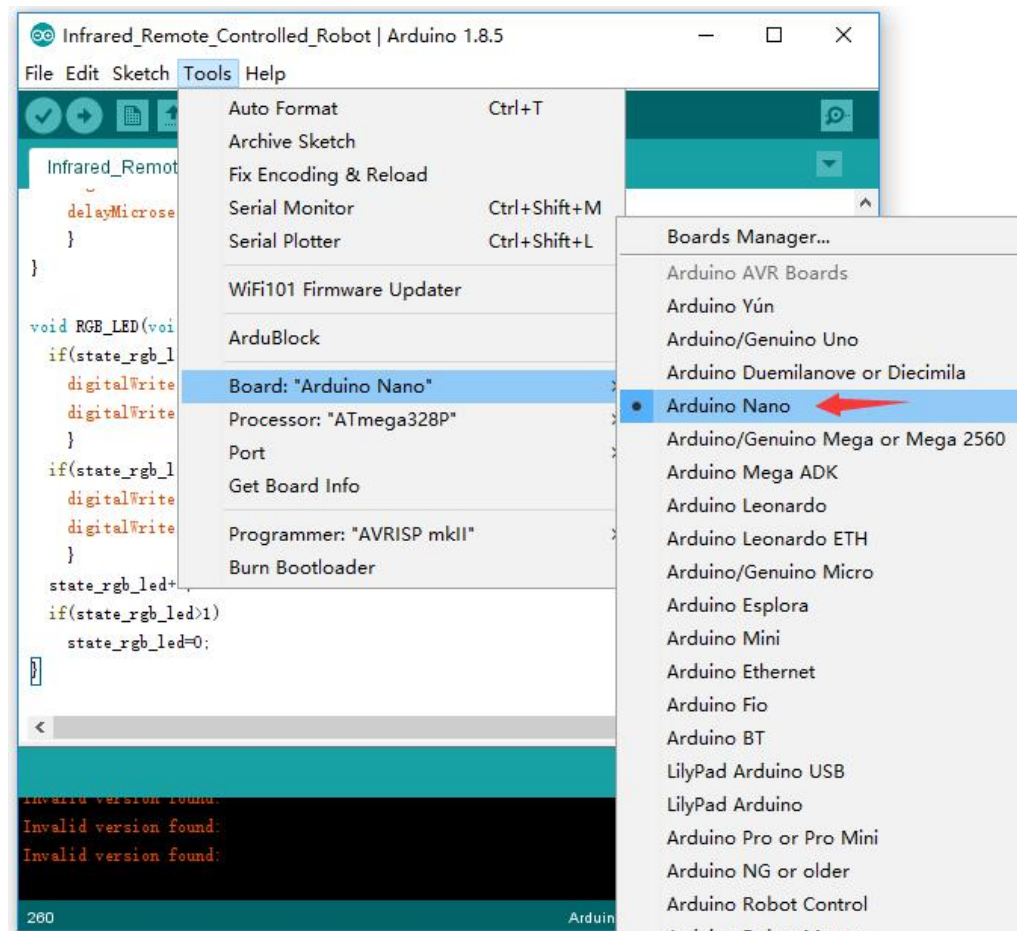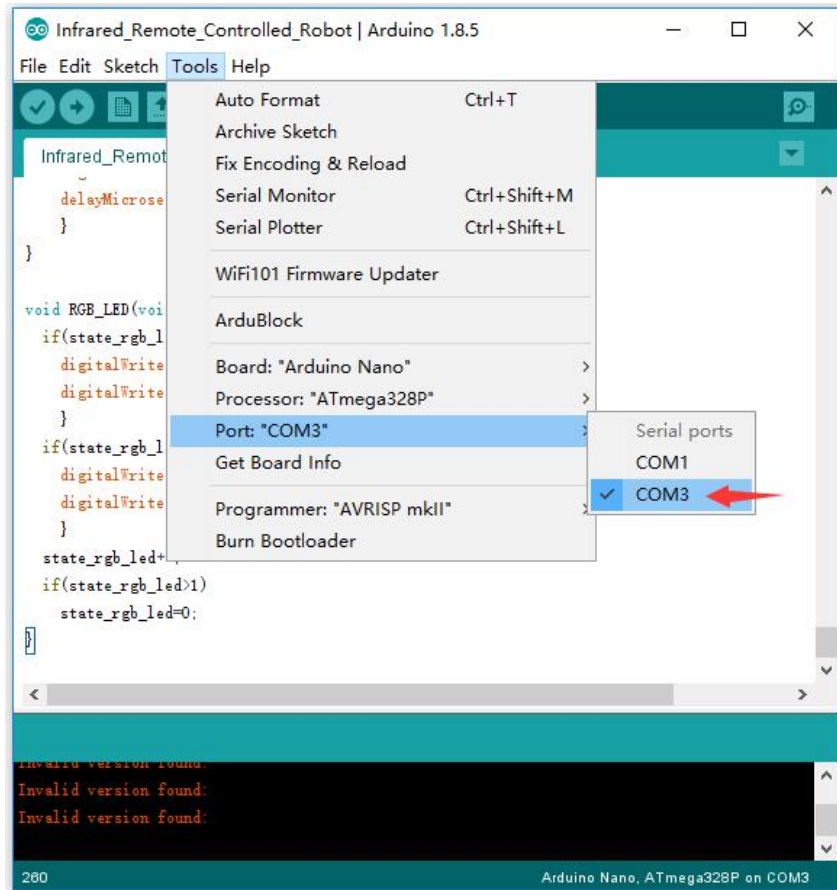
3.Click to open the sketch

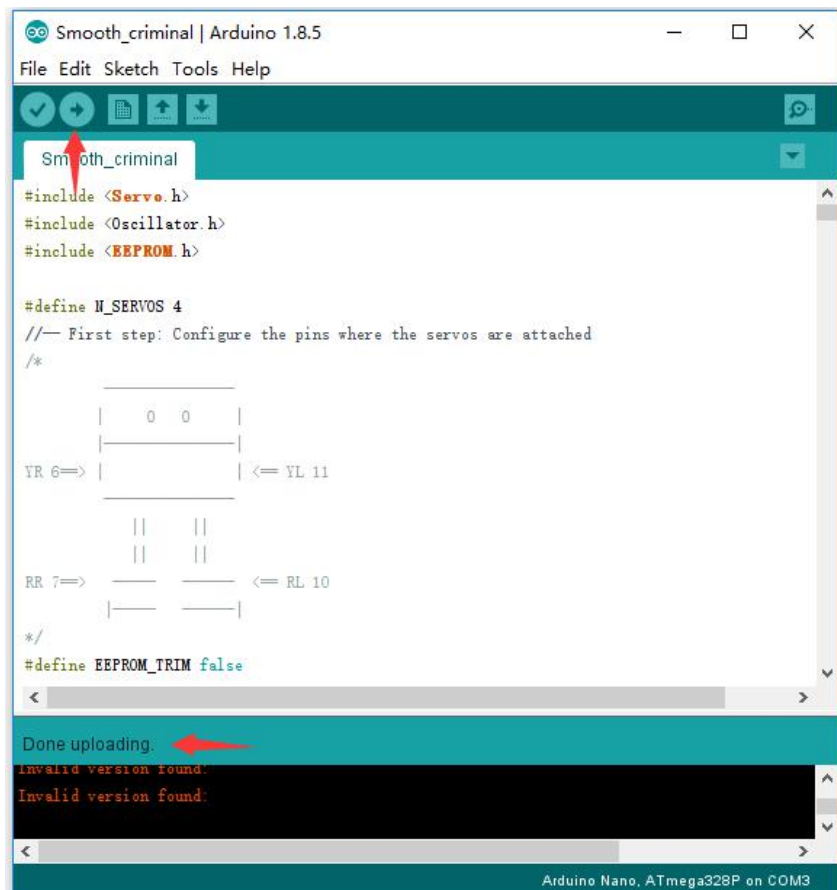Open the code in Infrared_Remote_Controlled_Robot folder with the arduino IDE, as shown below:
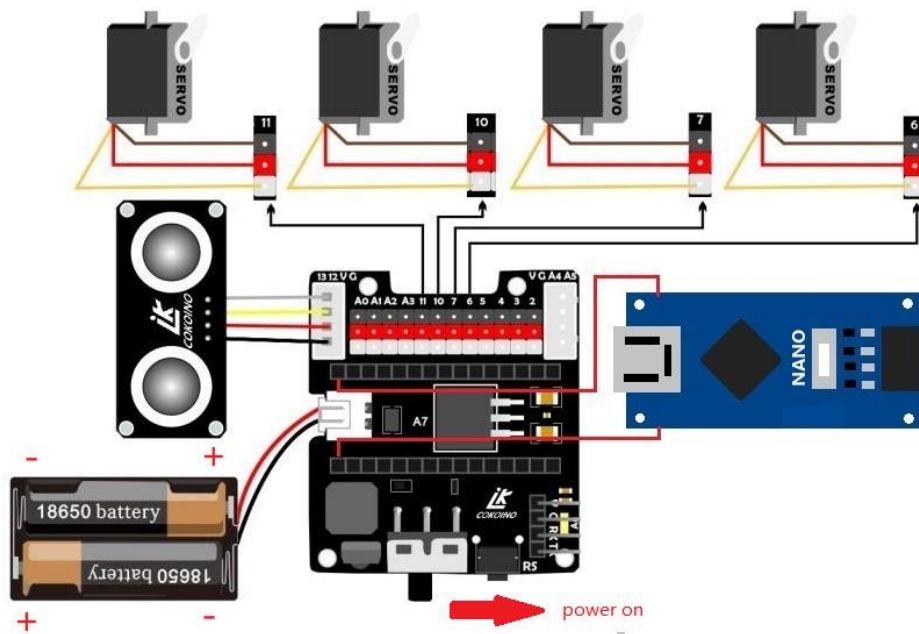

4.Select the board type

5. Select usb port

6. Upload the sketch（Note: When uploading the sketch, the Bluetooth module cannot be connected to the robot, otherwise the sketch cannot be uploaded）
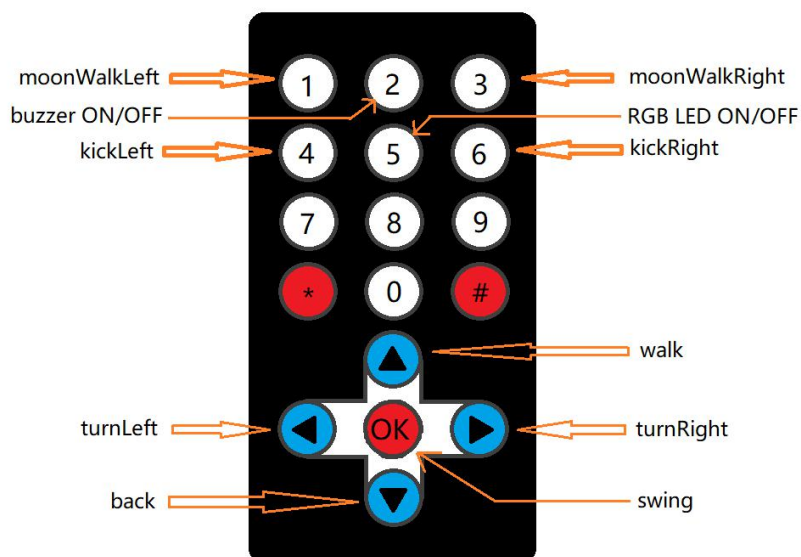

8.Result

After uploading the sketch, install the 18650 lithium battery to the robot, turn on the power switch on the Nano shield, and the robot can be control by the IR Remote Control.

9. Infrared remote control robot button introduction

moonWalkLeft		moonWalkRight
buzzer ON/OFF		RGB LED ON/OFF
kickLeft		kickRight

walk
turnLeft — turnRight
back — swing

Note：Please unplug the bottom plastic sheet when using the infrared remote control for the first time.

right view