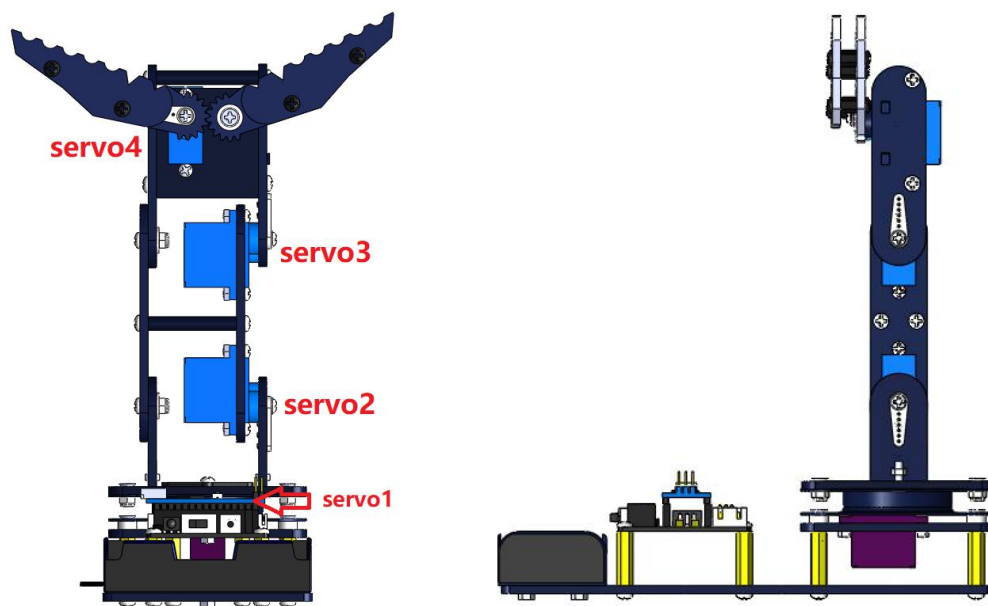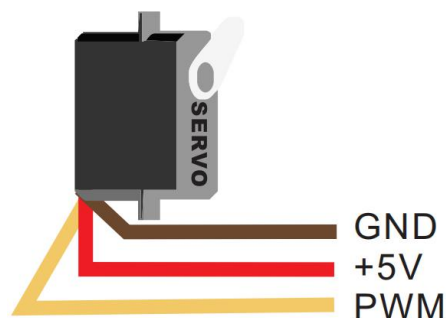# Lesson 6 -Adjust the Angle of the Servo

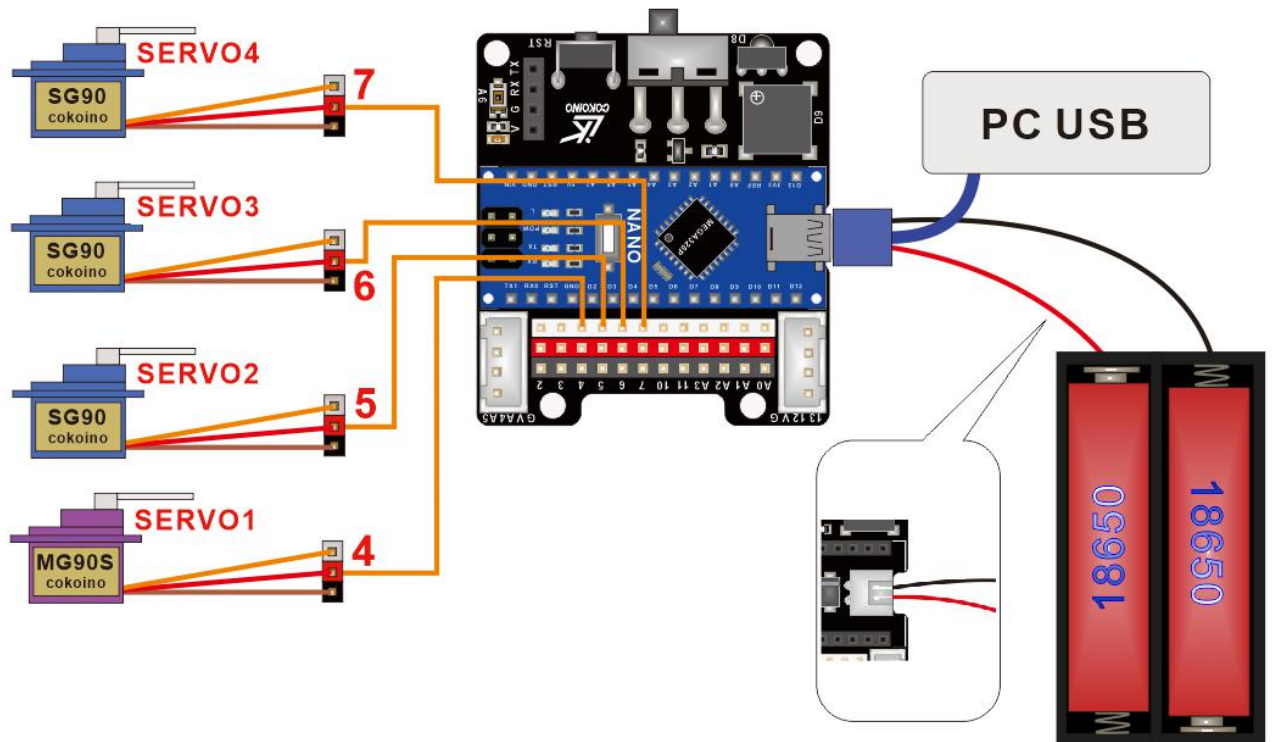## Why should we adjust the Angle of the Servo?

The shaft of the servo can be driven by external force. When you receive the servo, you cannot judge the
angle of the servo. In order to allow the robot to work properly and complete the set action, we need to adjust
the servo to the appropriate angle before installing it.
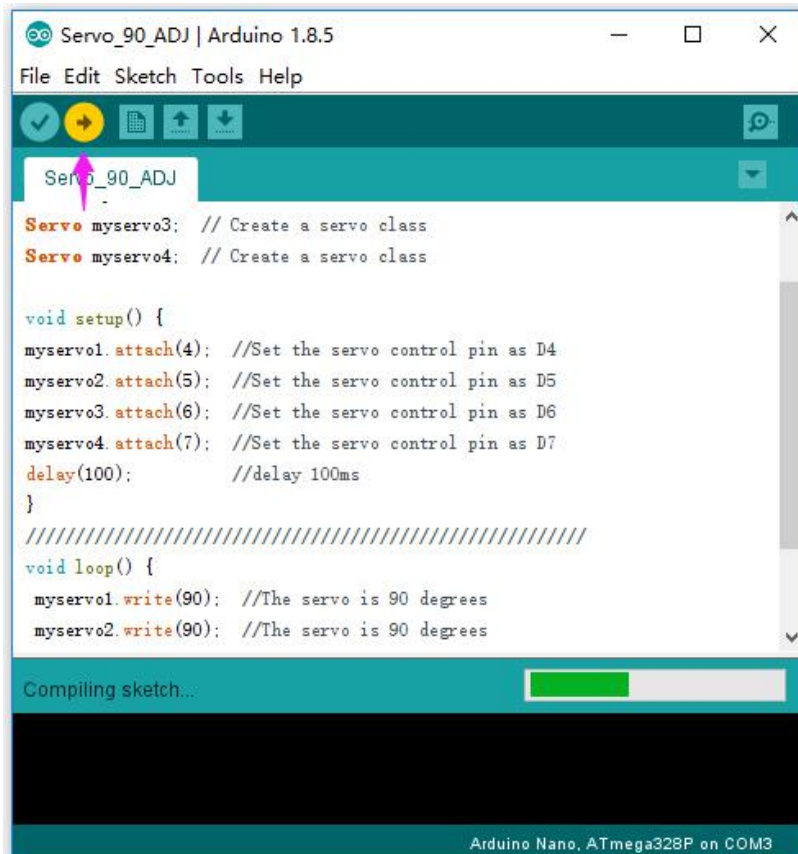

Three wires of the servo

Of the three wires that stick out from the motor casing, brown line is for GND, red one for power 5V,
orange one for signal terminal (PWM signal). As shown below:

Upload code

Use Arduino IDE to open and upload the code in the "Servo_90_ADJ" folder, as shown below:

Result:

After the code is successfully uploaded, then turn on the power switch on the nano expansion board, the program will automatically initialize the servos to 90 degrees.

Precautions after adjusting the angle

It is forbidden to turn the servo motor again after the servo is adjusted by 90 degrees. The following figure shows the trajectories of servo1, servo2, servo3, and servo4 after installation.