

Lesson 2 Action Group Programming

1. Project Outcome

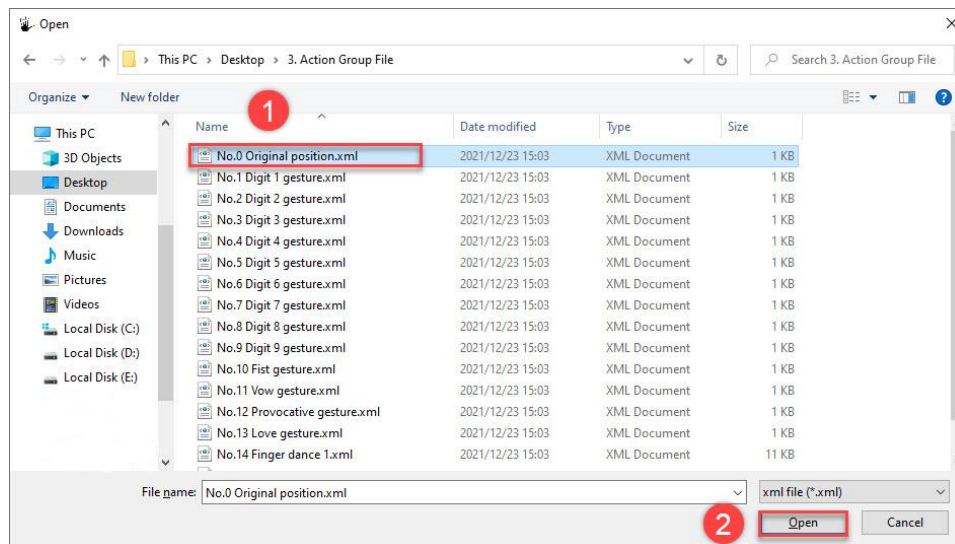
Create an action group consisting of 6 actions to allow uHand2.0 to “Greet”.

2. Action Implementation

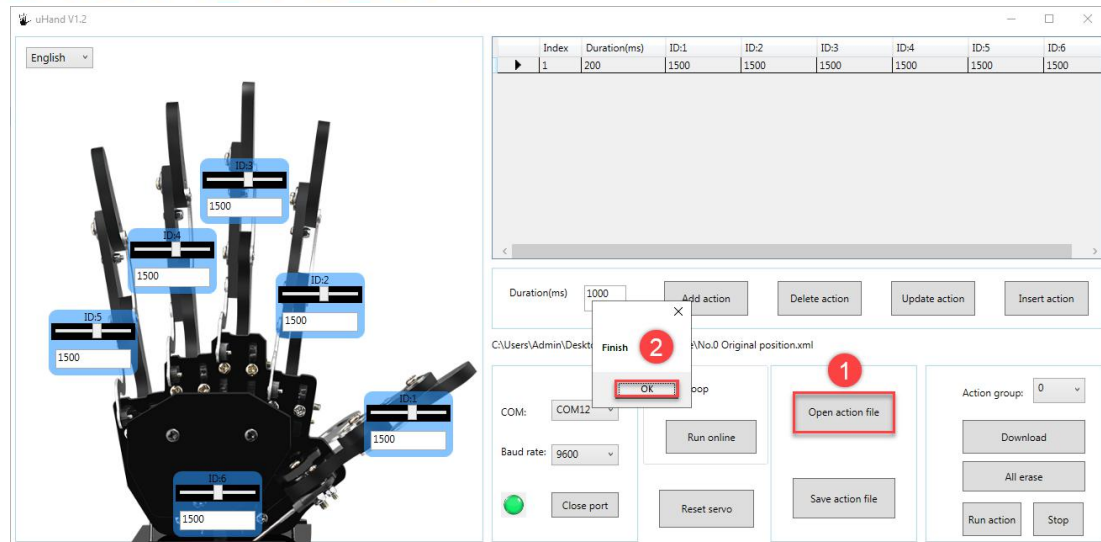
2.1 Action Programming

Step 1: switch on uHand2.0 and connect to computer. Then double-click to open the PC software.

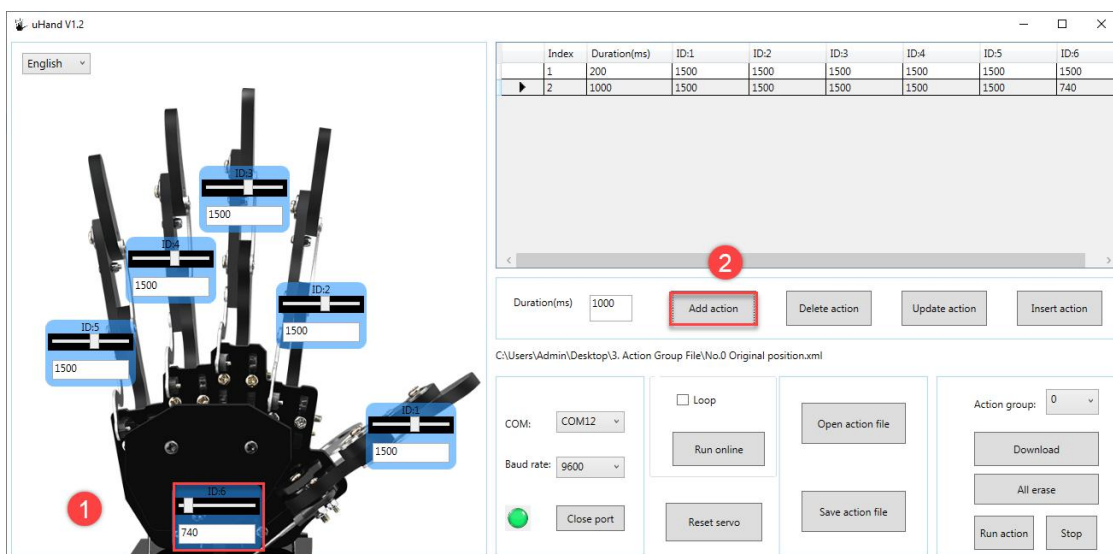
Step 2: Click “open file” button in action group setting area to open No.0 action group in folder “7. Appendix-> Action group files”.



Step 3: Click “online running” button to update the corresponding servo value in servo control area.

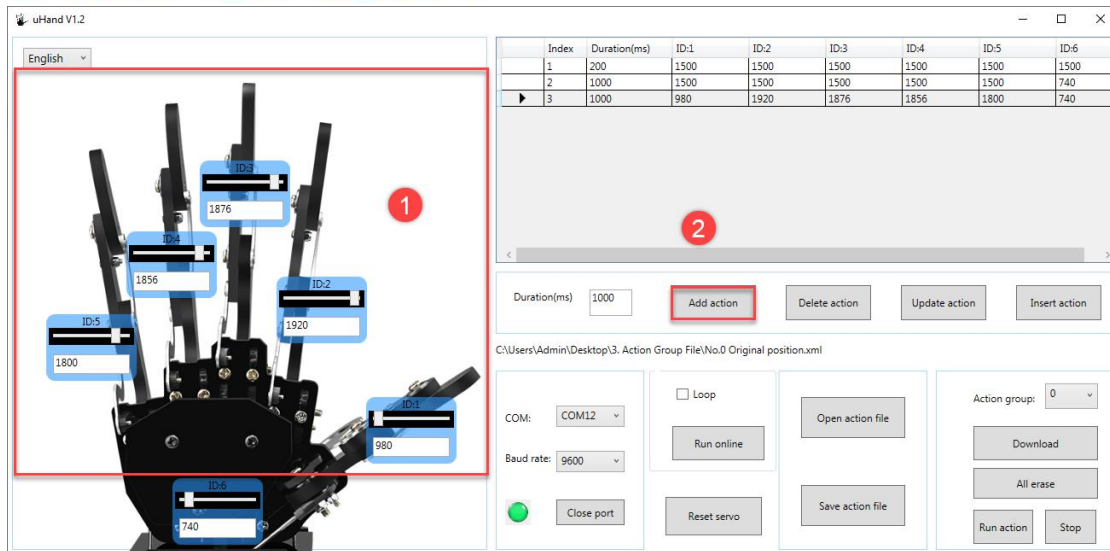


Step 4: Program the hand to turn to the left. According to the distribution of servo ID, drag the slider corresponding to ID6 to 740 and then click “add action”.

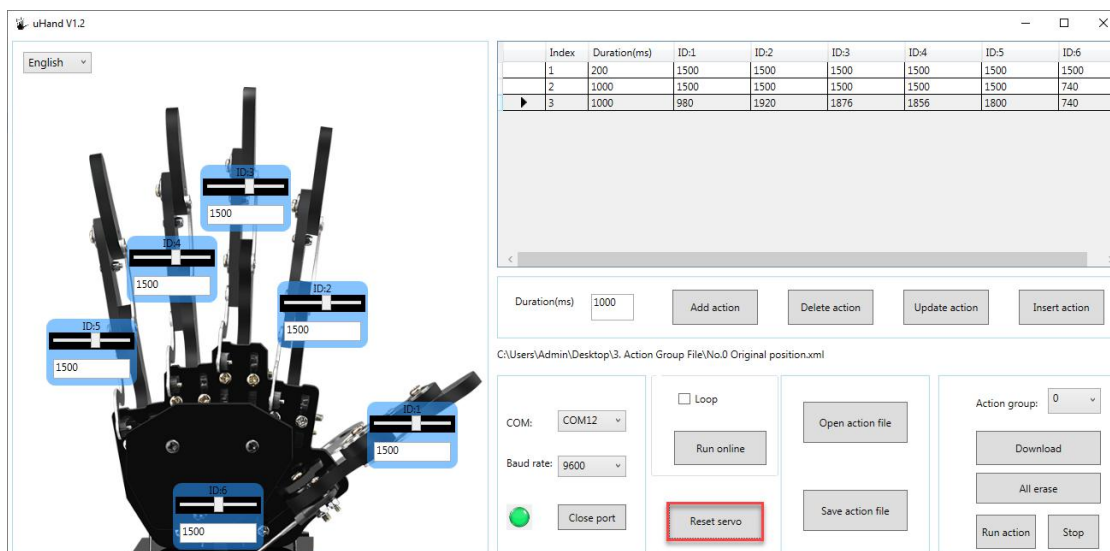


Tip: Place the mouse cursor on one side of the slider bar. Then quick click the left mouse button to adjust the value precisely.

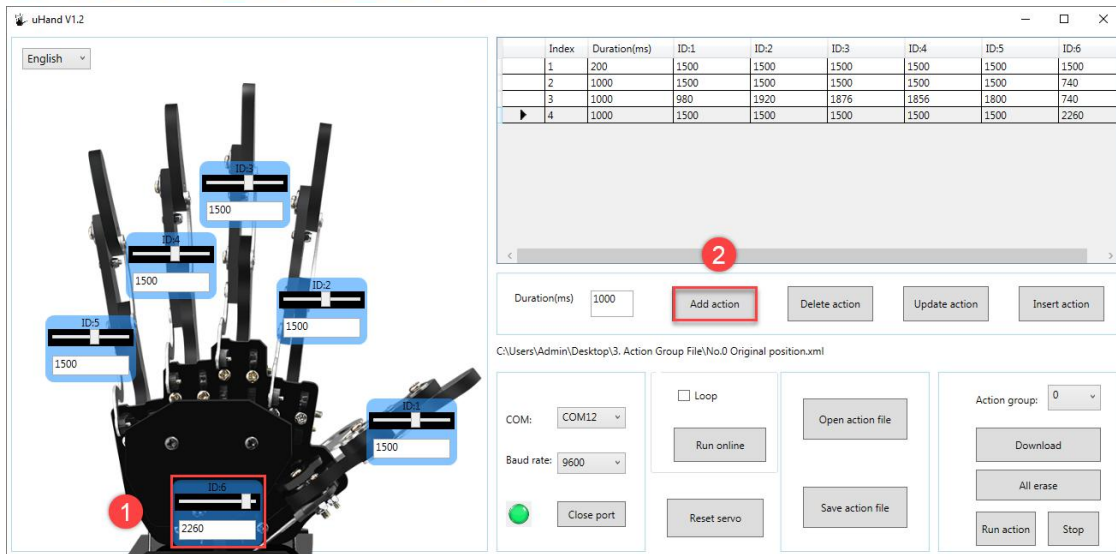
Step 5: Program the hand to open as action 3. Drag the slider to adjust the action value of ID1, ID2, ID3, ID4 and ID5 servo to 980, 1920, 1876, 1856 and 1800. Then add it to action 3.



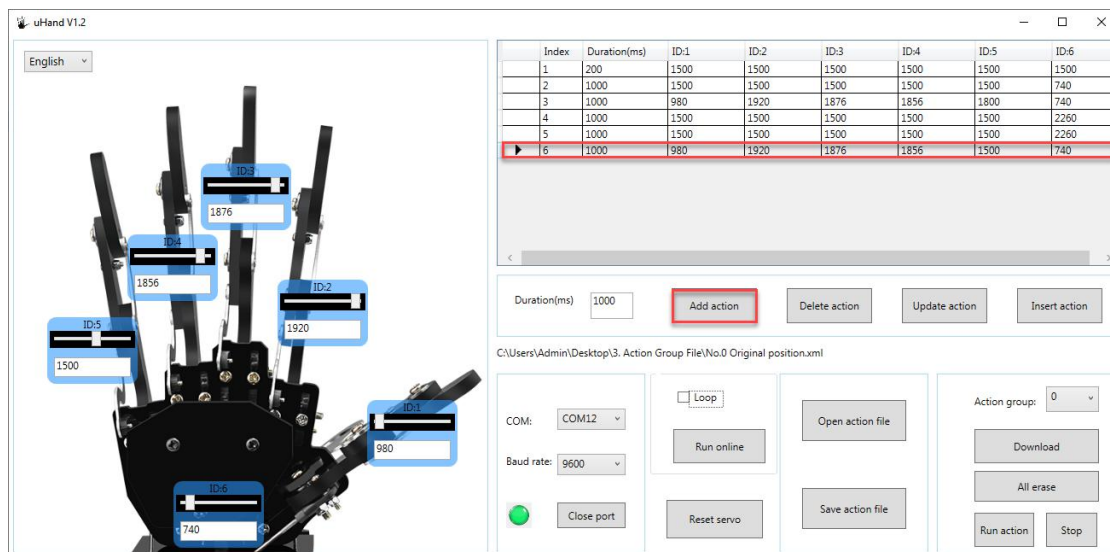
Step 6: Program the hand back to the initial position as action 4. Click “reset servo” button to reset all the servo value to 1500 and then click “add action”.



Step 7: Program Action 5 to turn to the right. Drag the slider corresponding to ID6 servo to 2260, and then click “add action”.

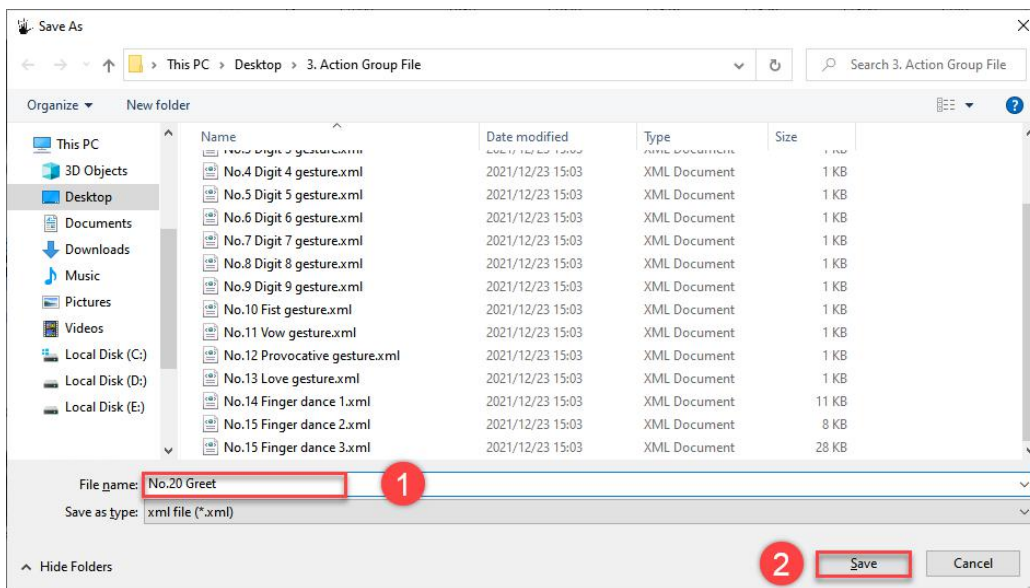


Step 8: Action 6 we let the hand open. Therefore, add the No.5 action again, and then paste the value of ID1-ID5 in No.3 action to the corresponding ID in No.6 action. (You can double-click to select the ID value. Then press “Ctrl+C” to copy and press “Ctrl+V” to paste.)

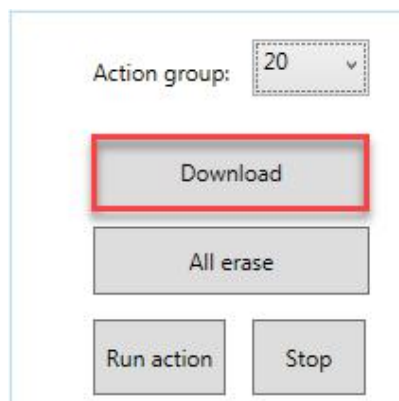


2.2 Download Action Group

Step 1: After programming, please save the action group for future debugging. Click “Save action file” and name it in the pops-up window (format: action group number and action group name, such as 20 greet). Then, click “save”.



Step 2: After saving the file, download the action into the corresponding action group. Select “20” as action group number, and then click “download” button.



After downloading, the interface will prompt “Download Complete”, and then click “Ok” to close it.