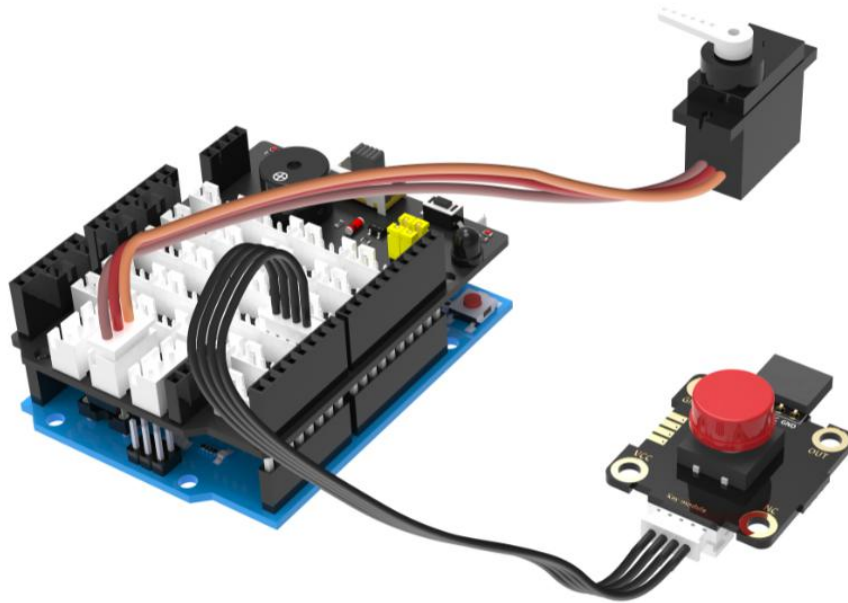


Experimental content: Switch the servo angle by pressing the button (0 °, 90 °, 180 °)

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, 4pin cable(PH2.0) *1, 9G metal digital servo * 1, Red button module * 1

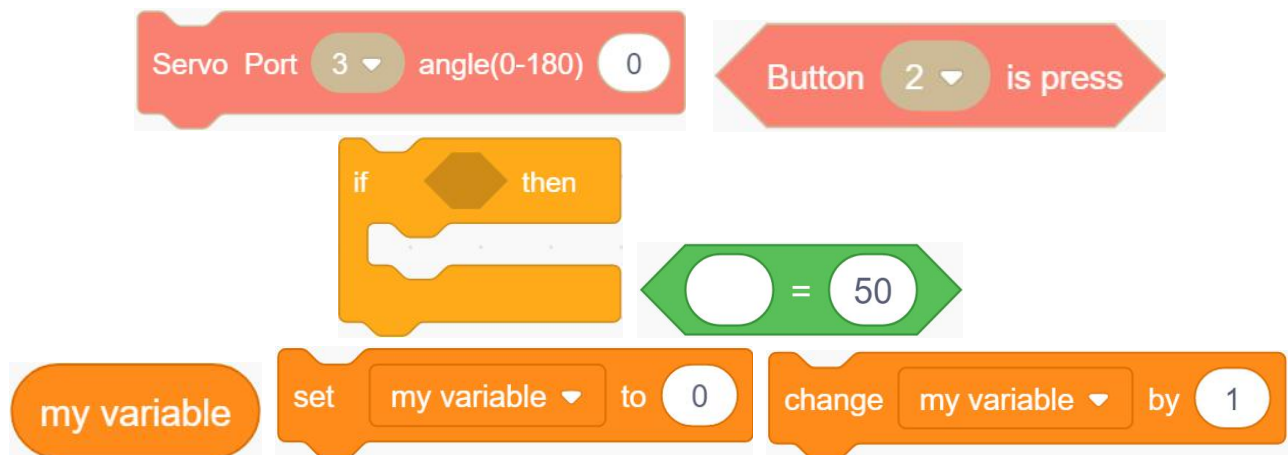
Experimental wiring:



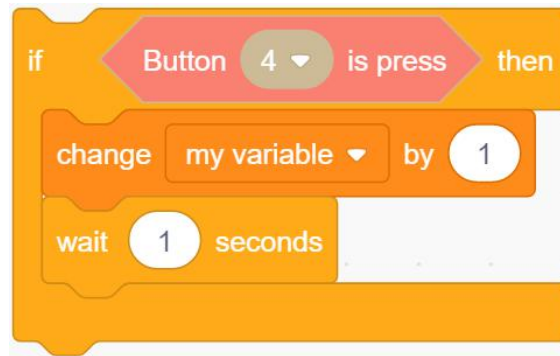
The red button module is connected to the interface of the sensor expansion board with silk screen (GND, ~ 5, 4, 5V), OUT: 4.

Experimental steps:

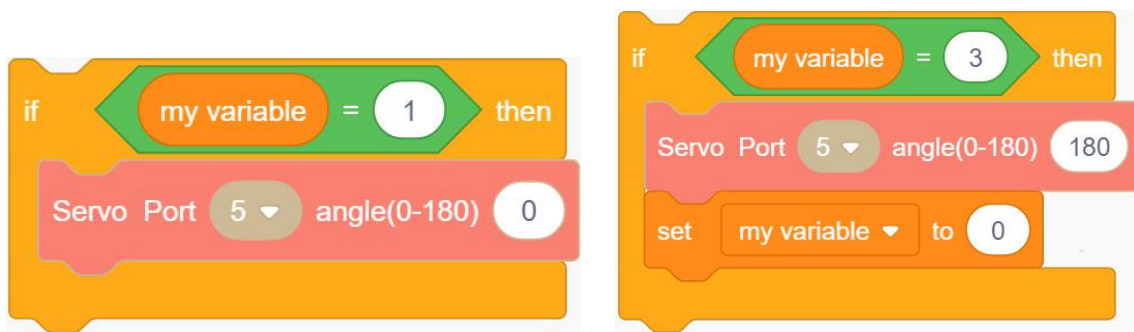
1. Select the following building blocks in [Plugkit], [Control], [Operation], and [Variable]



2. The button block pin needs to be selected 4. If the button module is pressed, then, the change my variable by 1 block will be executed, and wait for 1s.



3. Set the servo port to 5 and set the angle to 0, 90, 180. If my variable = 1, the servo angle is 0°. If my variable = 2, the servo angle is 90°. If my Variable = 3, the servo angle is 180° and my variable is set to 0.



4. Put set my variable to 0 block in the setup, and then add the blocks of steps 2 and 3 to the loop block.



5. Compiling and uploading programs.

Experimental phenomena: We can switch the servo angle by pressing the red button. Press at the first time, servo will rotate to 0°. Press at the second time, servo will rotate to 90°. Press at the third time, servo will rotate to 180°. Press at the fourth time, servo will rotate to 0°.

Note: If the USB data cable is used for power supply, the UNO board may restart due to unstable voltage. It is recommended to use a battery box for power supply.

