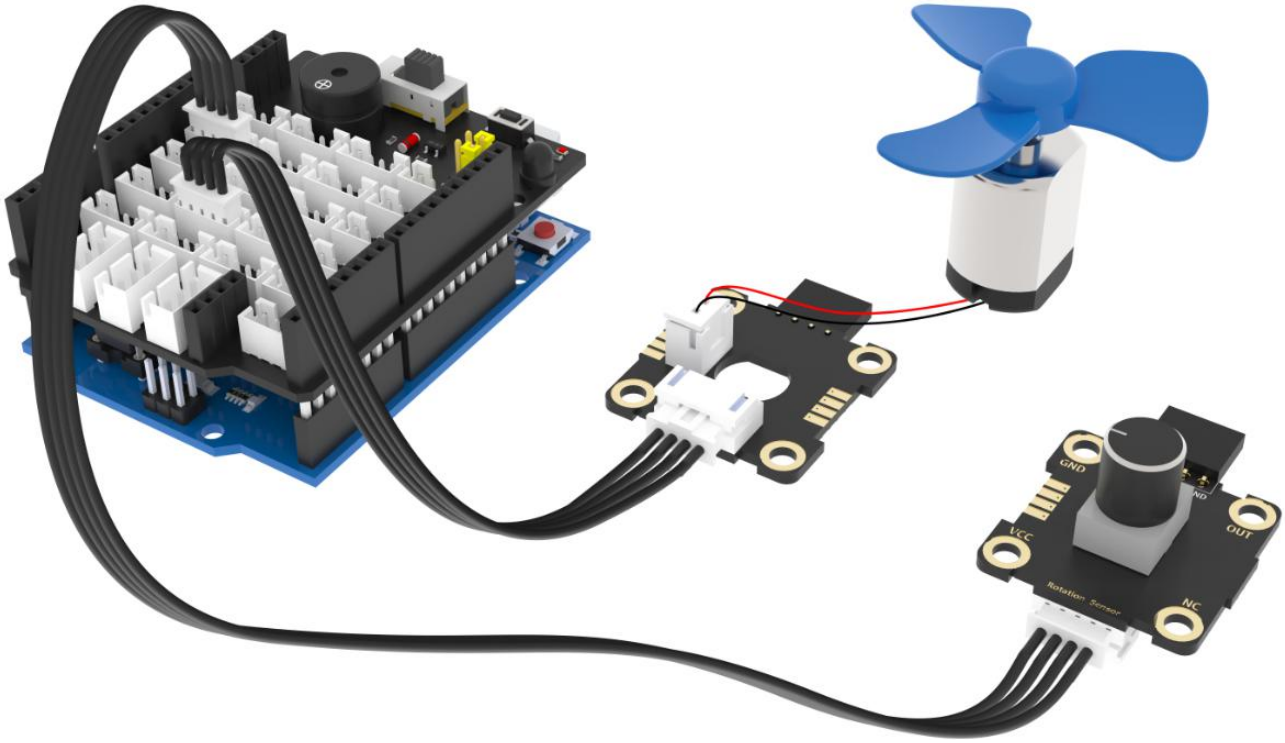
Experimental content: Adjust the wind speed through the potentiometer, wind speed range (0 ~ 100)

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, 4pin cable(PH2.0) *2, Motor drive module *1, Motor fan *1, Potentiometer module*1

Experimental wiring:



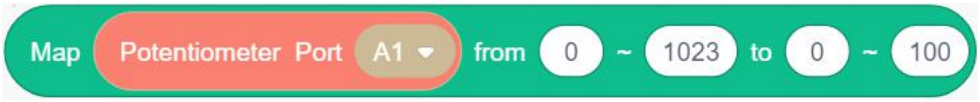
The potentiometer module is connected to the connector of the sensor expansion board (GND, A0, A1, 5V), OUT: A1.

Experimental steps:

In the previous course we have learned the potentiometer to adjust the brightness of RGB lights. In fact, the same principle for the potentiometer to adjust the wind speed.

1. Select the following building blocks in the [Plugkit] and [arduino].

2. Put the potentiometer block at the first entry of the Map block and change the range from 0 ~ 1023 to 0 ~ 100.



3. Combine the blocks from the previous step and put them in the input position of the wind speed of the fan module building blocks.

4. Put this block into loop block ,as shown below.

5. Compiling and uploading programs.

Experimental phenomena: By adjusting the value of the potentiometer module, the speed of the fan can be adjusted. When the potentiometer turns clockwise, the wind speed decreases, and when it rotates counterclockwise, the wind speed increases. Wind speed (0 ~ 100)