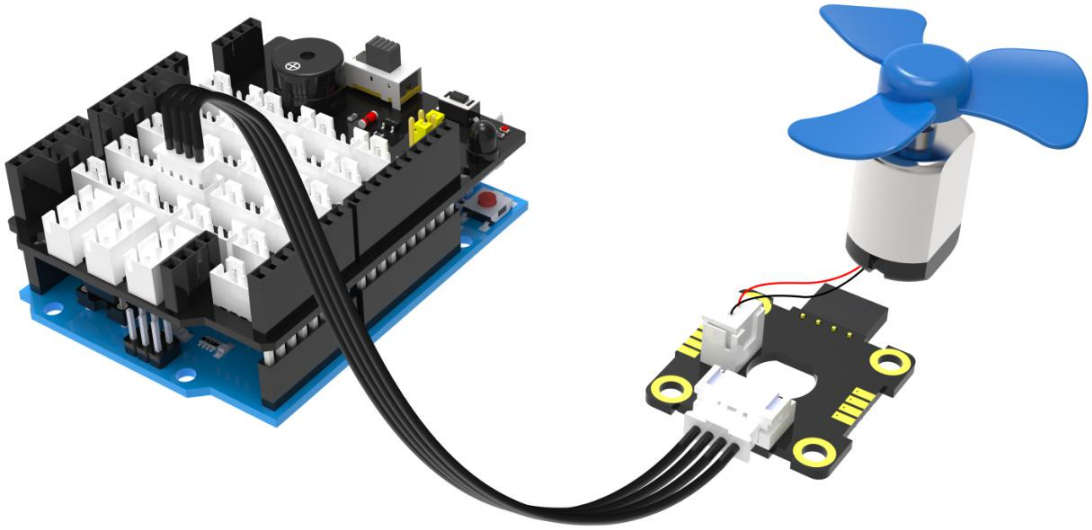
Experimental content: Drive motor fan

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

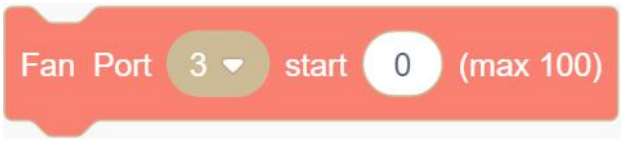
Experimental wiring:



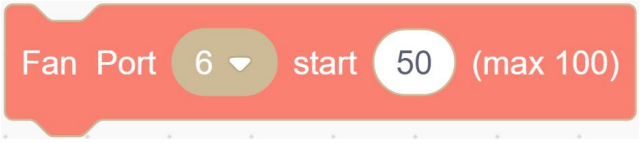
The small motor fan is connected to the motor drive module through the built-in PH2.54 wire. The motor drive module is connected to the connector of the sensor expansion board with a silk screen (GND 7 ~ 6 5V), M2: ~ 6.

Experimental steps:

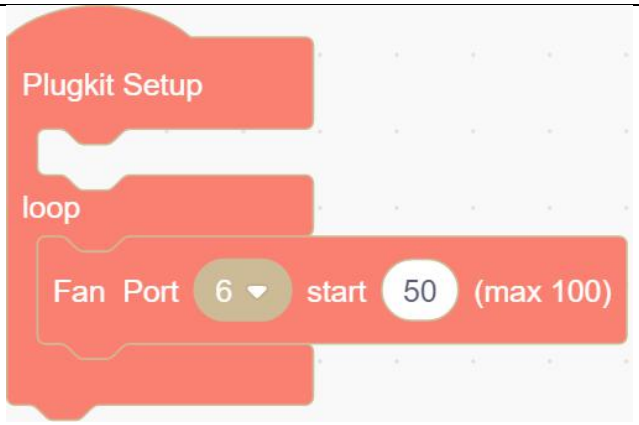
1. Select the following building blocks in the [Plugkit]

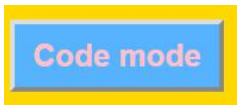


2. Select the fan module port to ~ 6 and change the "wind speed" to 50. The fan module port can also choose other ports. After our test, the wind speed is less than 30 may not rotate, if it is greater than 50, it may cause UNO to restart. If it is greater than 50 and less than 100, it can be powered by the battery box. For safety, the maximum wind speed is recommended to be set to 100.



3. Put the block in the previous into the loop block.



4. Connect to the computer through the USB data cable, click 

the upper right part of helloblock to switch to the code mode, select the serial port number other than COM1

, click the upload symbol  in the upper right corner, wait patiently for a moment, and when the lower right corner appears “Done compiling. Done uploading” indicates the upload is successful.

Experimental phenomena: Small motor fan rotates with speed of 50.

Note: If a USB data cable is used to power the UNO board and the restart situation, it recommended use battery box for power.