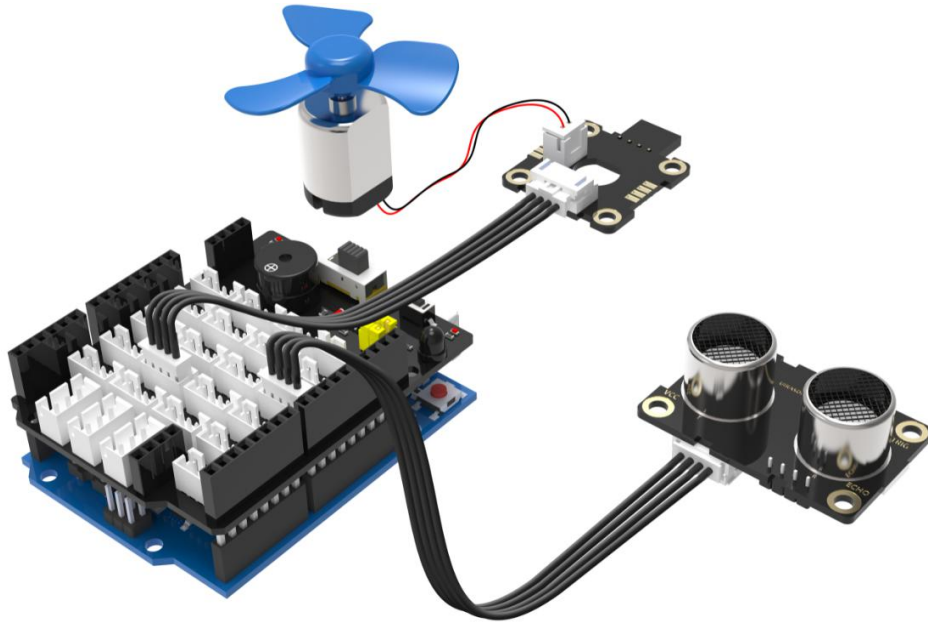


Experimental content: When someone approaches is detected, fan is opened.

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

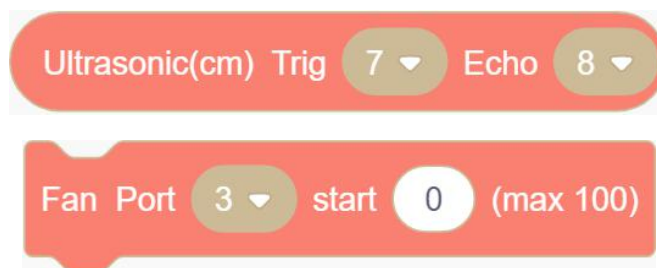
Experimental wiring:



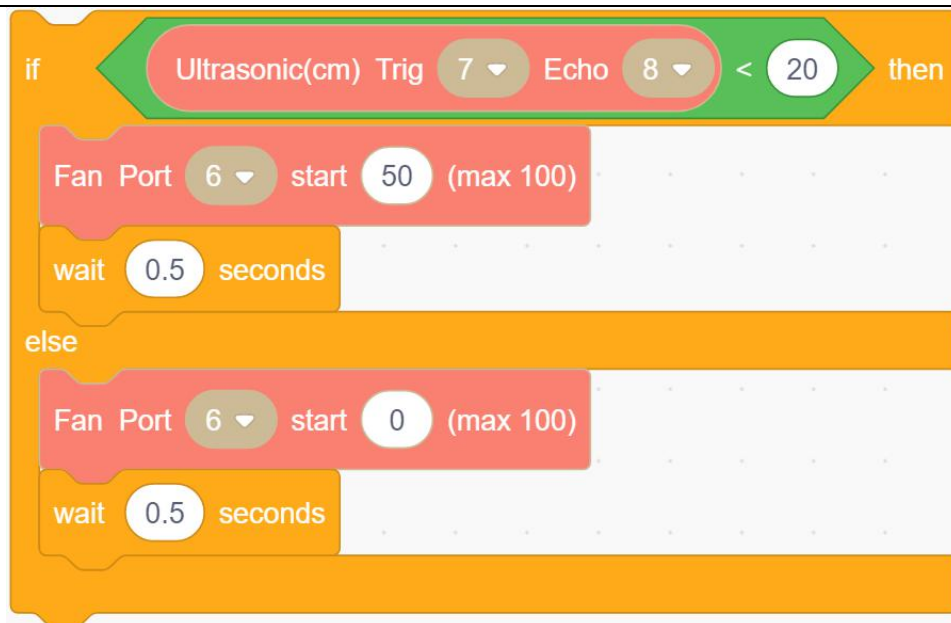
Motor drive module is connected to the interface of the sensor expansion board with silk screen (GND, 7, ~6, 5V).

Experimental steps:

1. Select the following blocks in the [Plugkit], [Control], [Operator].



2. If the distance recognized by the ultrasonic module is less than 20, the fan starts to rotate, otherwise, the fan stops rotating. Add wait 0.5 seconds blocks to prevent the fan from quickly switching off from rotation and causing the device to restart.



3.Put the block combination of step 2 into the loop block.



4.Compiling and uploading programs.

Experimental phenomena: If the distance recognized by the ultrasonic module is less than 20, the fan starts to rotate with speed 50, otherwise, the fan stops rotating.

