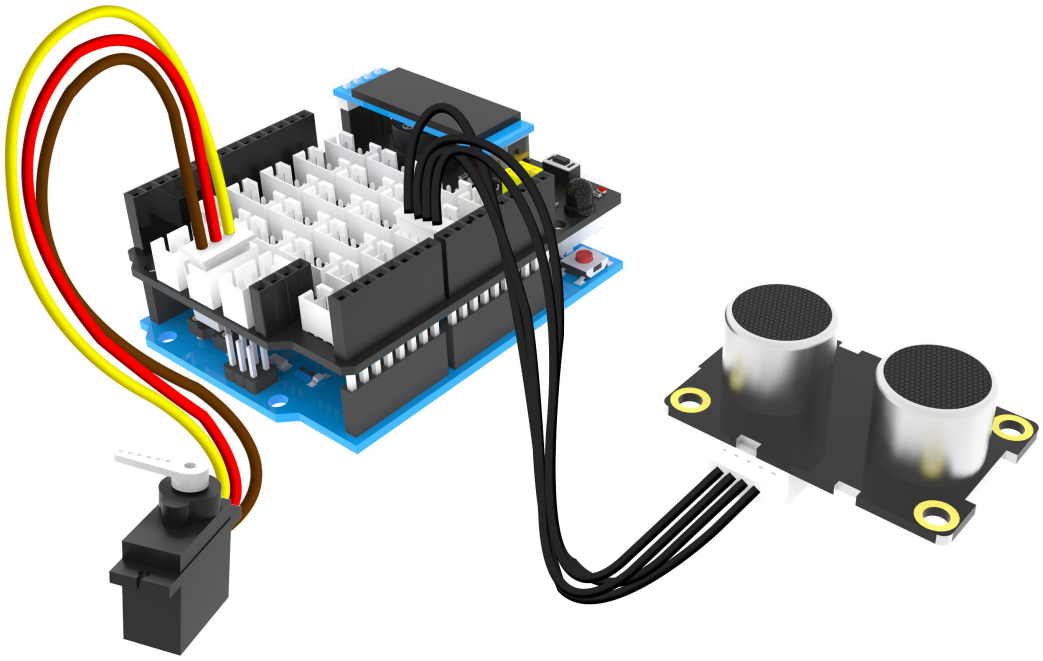
Experimental content: The OLED displays ultrasonic data. If a person is coming. The OLED will display a smile pattern.

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, 4pin cable (PH2.0) * 1, USB data cable *1, Ultrasonic sensor module *1, 9G metal digital servo *1, 0.91 inch OLED.

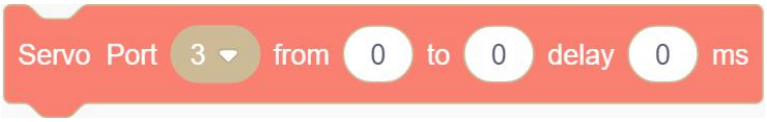
Experimental wiring:

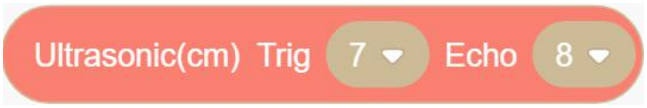


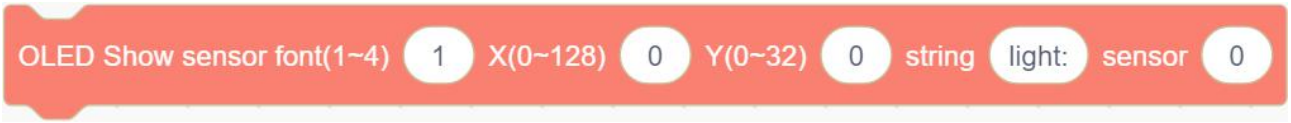
OLED is connected to the interface of the sensor expansion board with silk screen (GND, VCC, SCL, SDA).

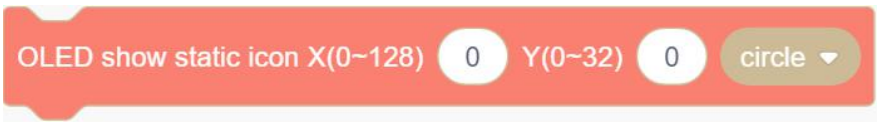
Experimental steps:

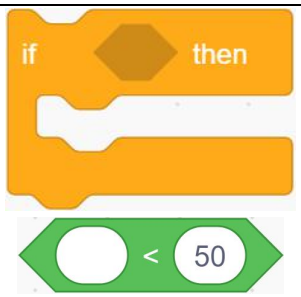
1.Select the following blocks in the [Plugkit], [Control], [Operator].



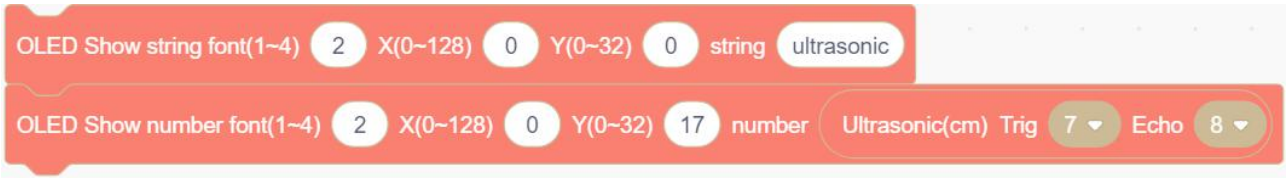






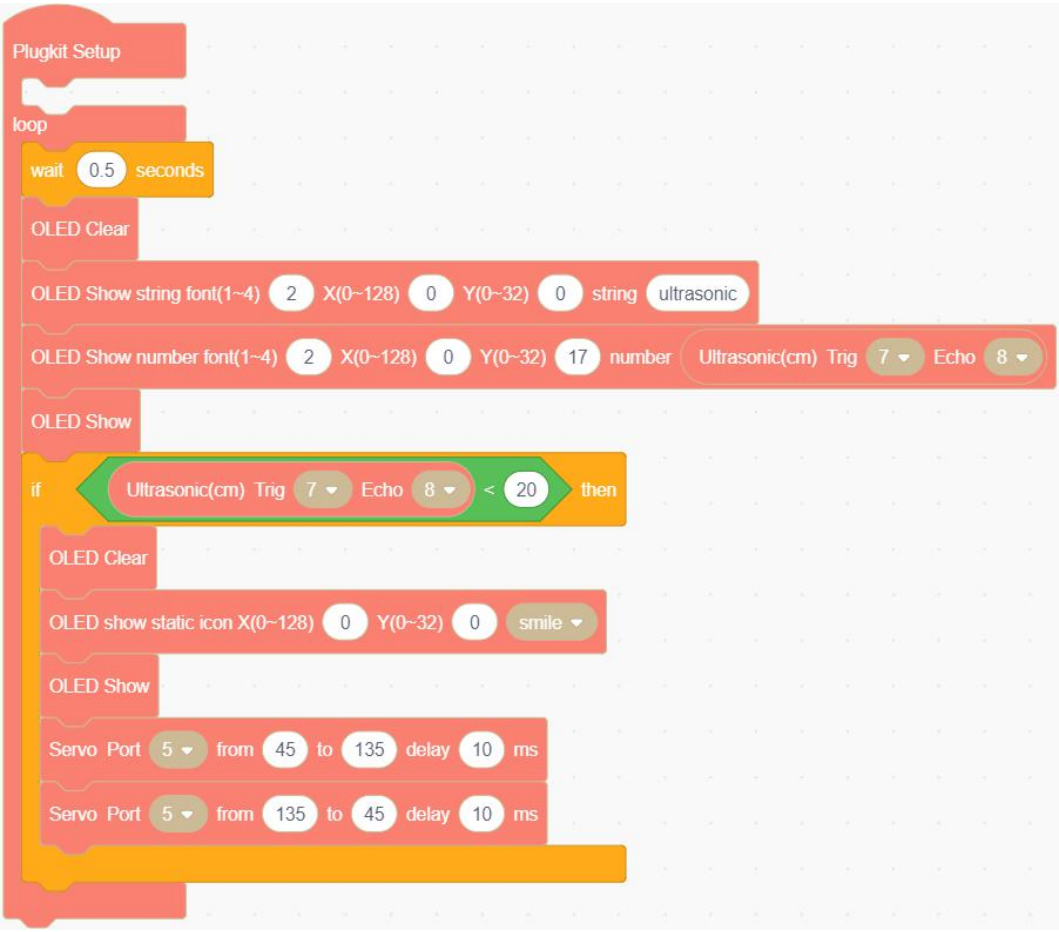


2.Put the ultrasonic module block into the sensor data input of the OLED display sensor data. The characters of the OLED display sensor data are changed to ultrasonic :, the font size is set to 1, and the starting coordinates default (0,0) need not be modified.



3.If the distance recognized by the ultrasonic module is less than 20, the OLED display smile face and Servo turning back and forth.

4.Add OLED Clear and OLED Show block to block combination of step 2, and put them into the loop block.



5.Compiling and uploading programs.

Experimental phenomena: The OLED displays the ultrasonic sensor data. When the distance less than 20cm, the OLED display shows a smile pattern, and the servo simulates the arm waving.