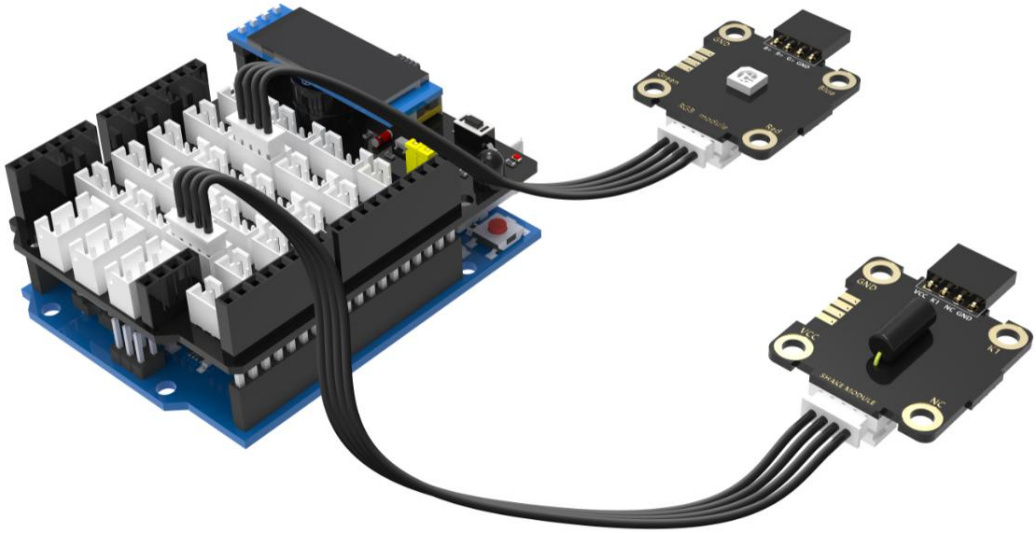
Experimental content: When sensor detect vibration, OLED display count increase 1 and green RGB light will flash three times.

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, Vibration sensor, 0.91 inch OLED *1, RGB light module, 4pin cable(PH2.0) *2.

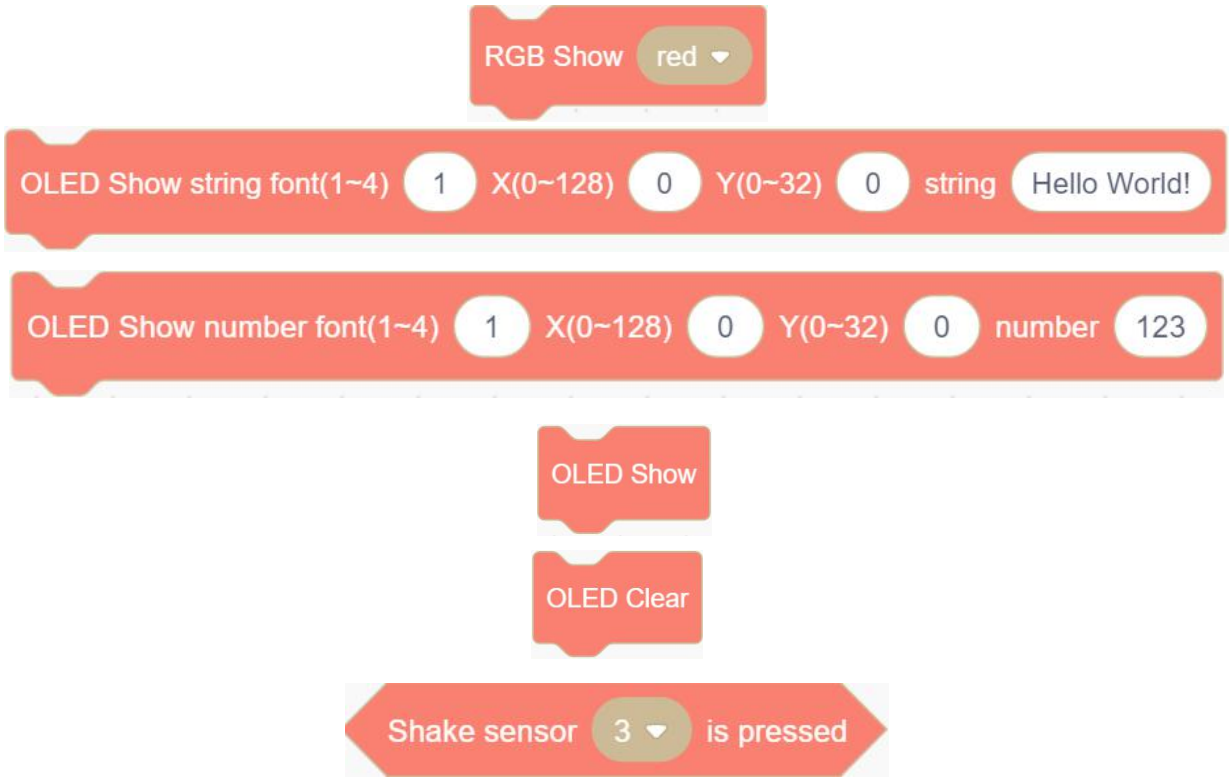
Experimental wiring:

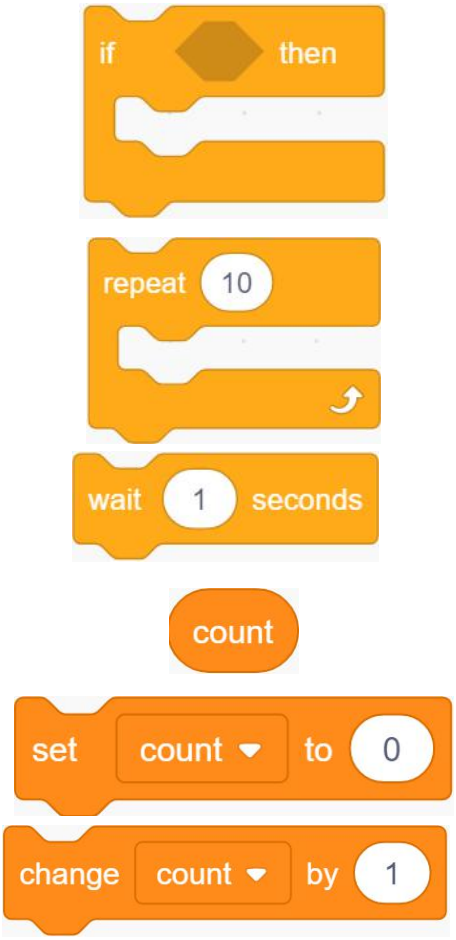


OLED is connected to the interface of the sensor expansion board with silk screen (SDA, SCL, VCC, GND).

Experimental steps:

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



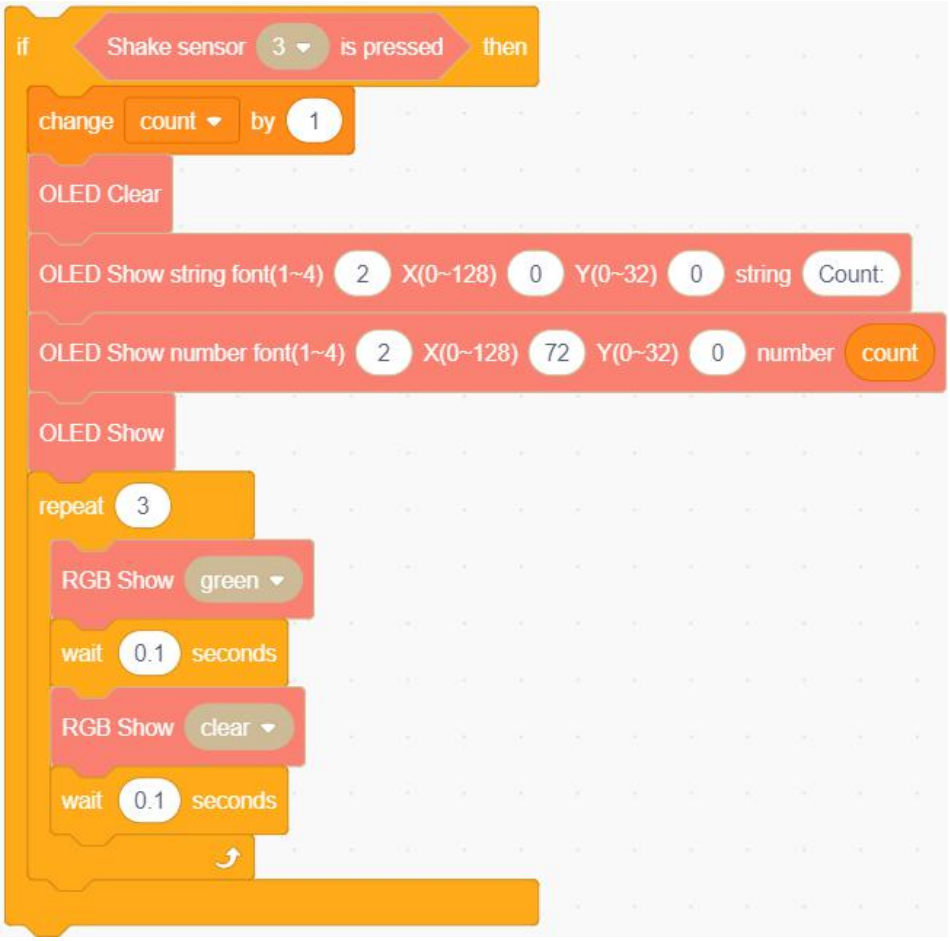


2.First of all, we need to build a combination of building blocks with RGB green light flashing three times. Combined with the knowledge we have learned before, we can use repeated execution of building blocks to make the RGB green light flash once and execute it three times.

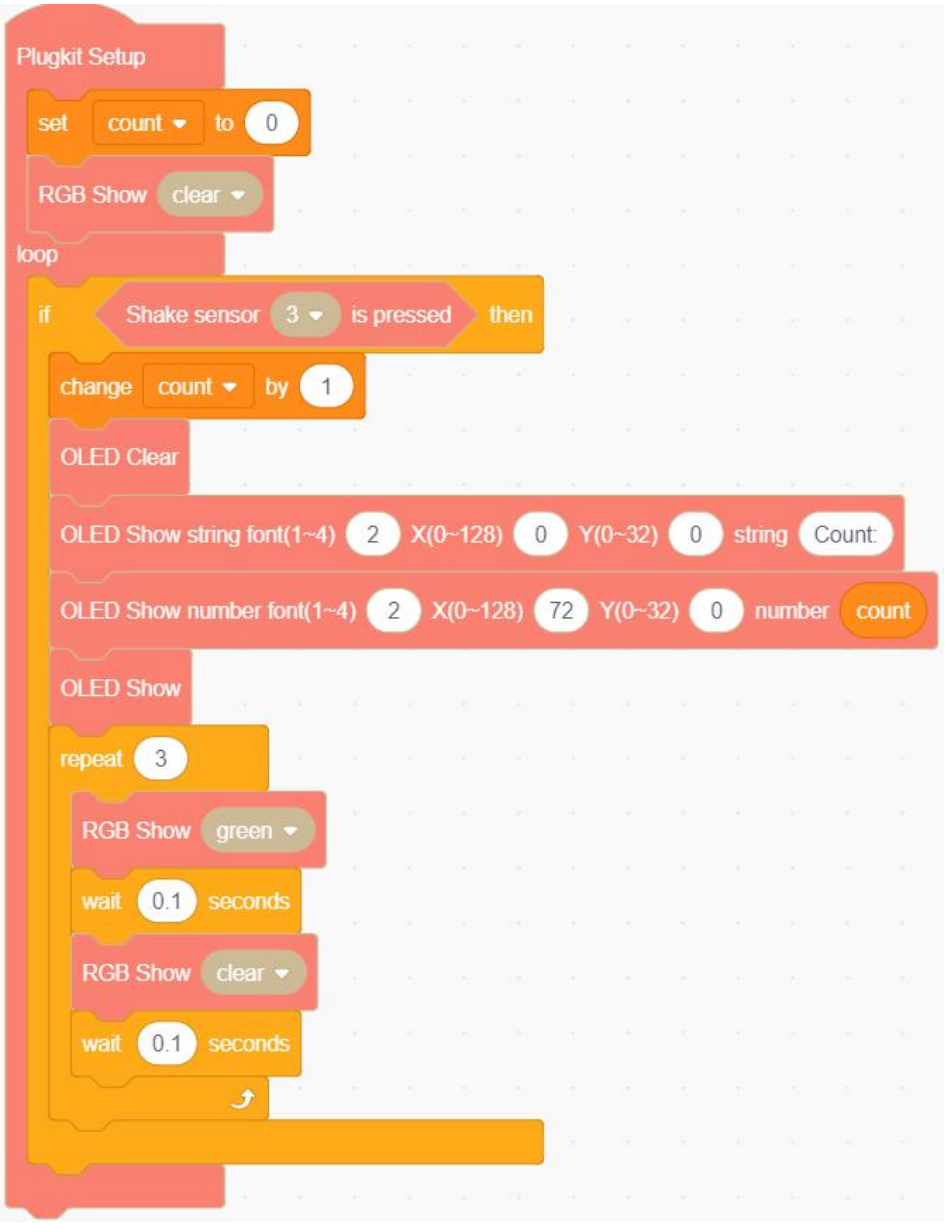
3.Then we need to build a building block combination of OLED display count value accumulation. In order to facilitate our review, we can first display the English characters [Count:] of the count value using the OLED display string building block, and then display the change of the count value using the OLED display digital building block. In order to see more clearly here, I created a new variable as the count value. Of course, my variables can also be used directly.

Note: Here the OLED display number needs to set the starting position (36,0) or it will overlap with the OLED display string.

4.If the vibration sensor senses vibration, the count value is +1, the OLED display is cleared, the count value is displayed, and the RGB green light flashes three times.

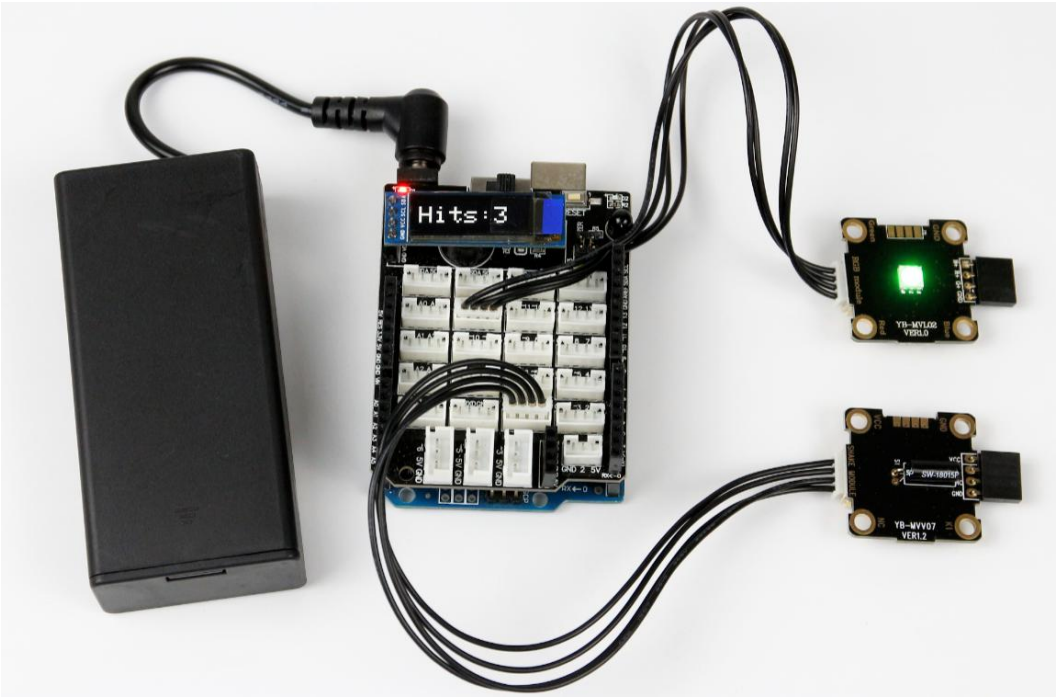


5.Finally, put the block combination of step 4 into the loop.



6.Compiling and uploading programs.

Experimental phenomena: When the vibration sensor detects the vibration, the count value on the OLED display +1, and the green RGB light flashes three times.


Hits:3
YB-MVL02
VER1.0
YB-WVV07
VER1.2