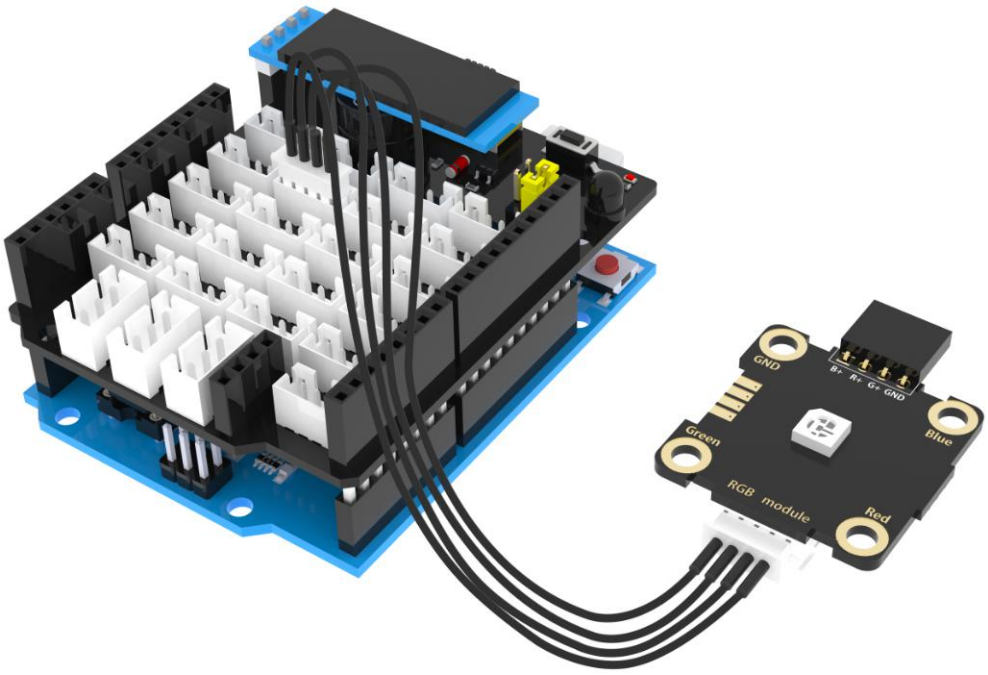
Experimental content: The OLED display shows a countdown of 60s. When the countdown is over, RGB light will light up and the buzzer will play music.

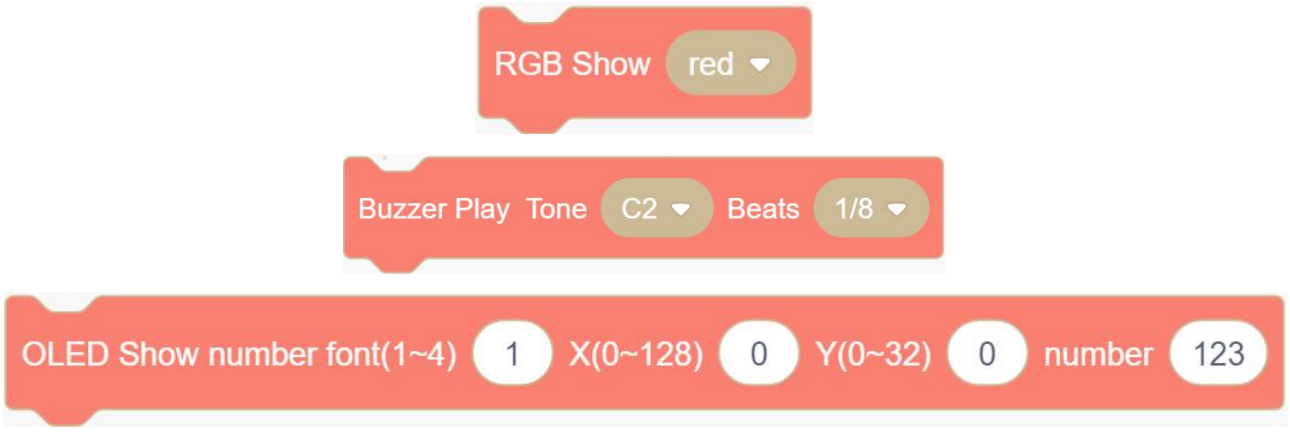
Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, 0.91 inch OLED *1, RGB light module *1

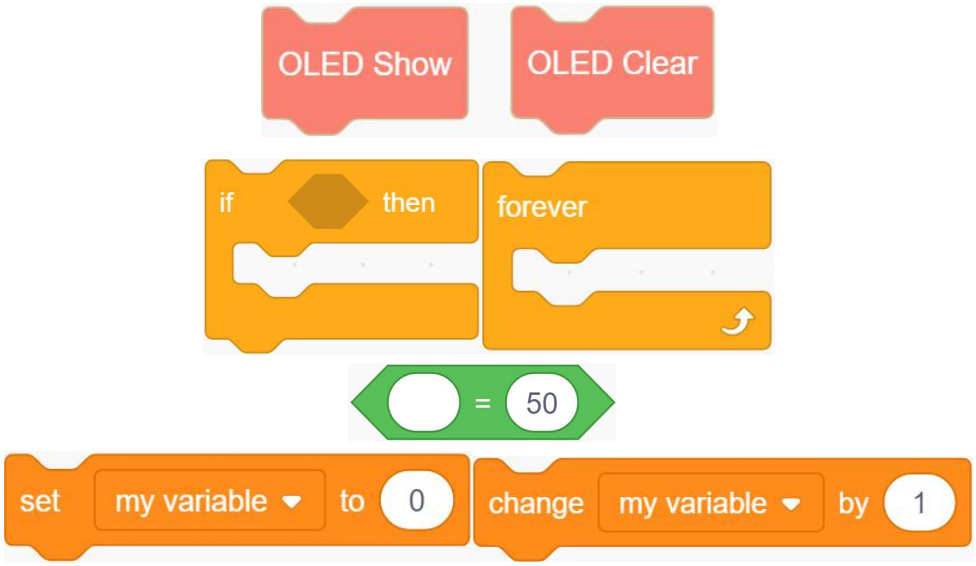
Experimental wiring:



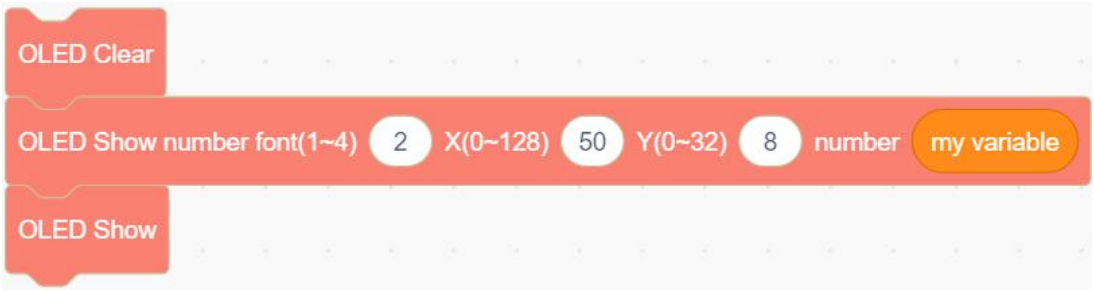
Experimental steps:

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

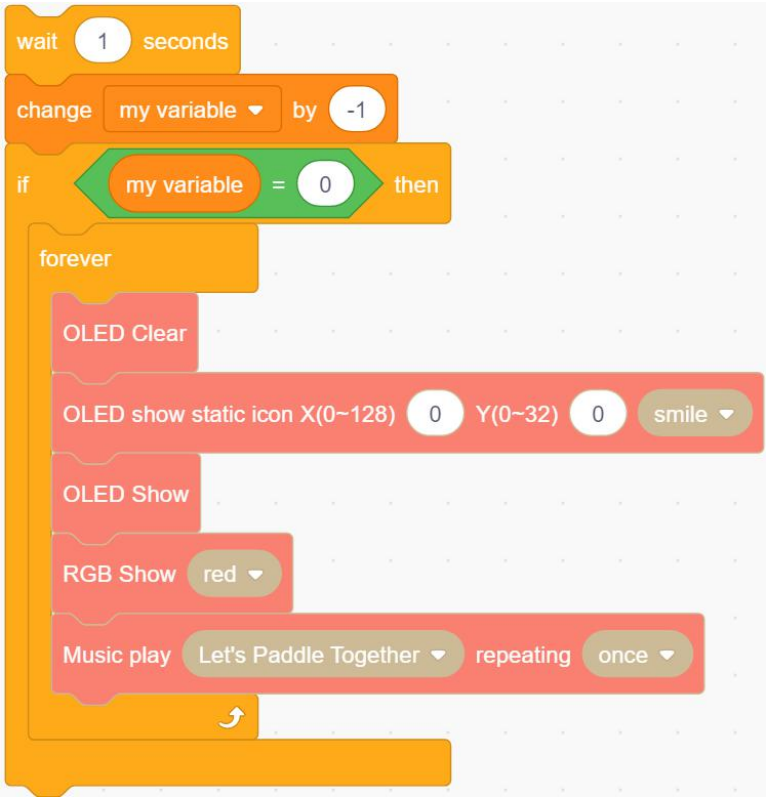




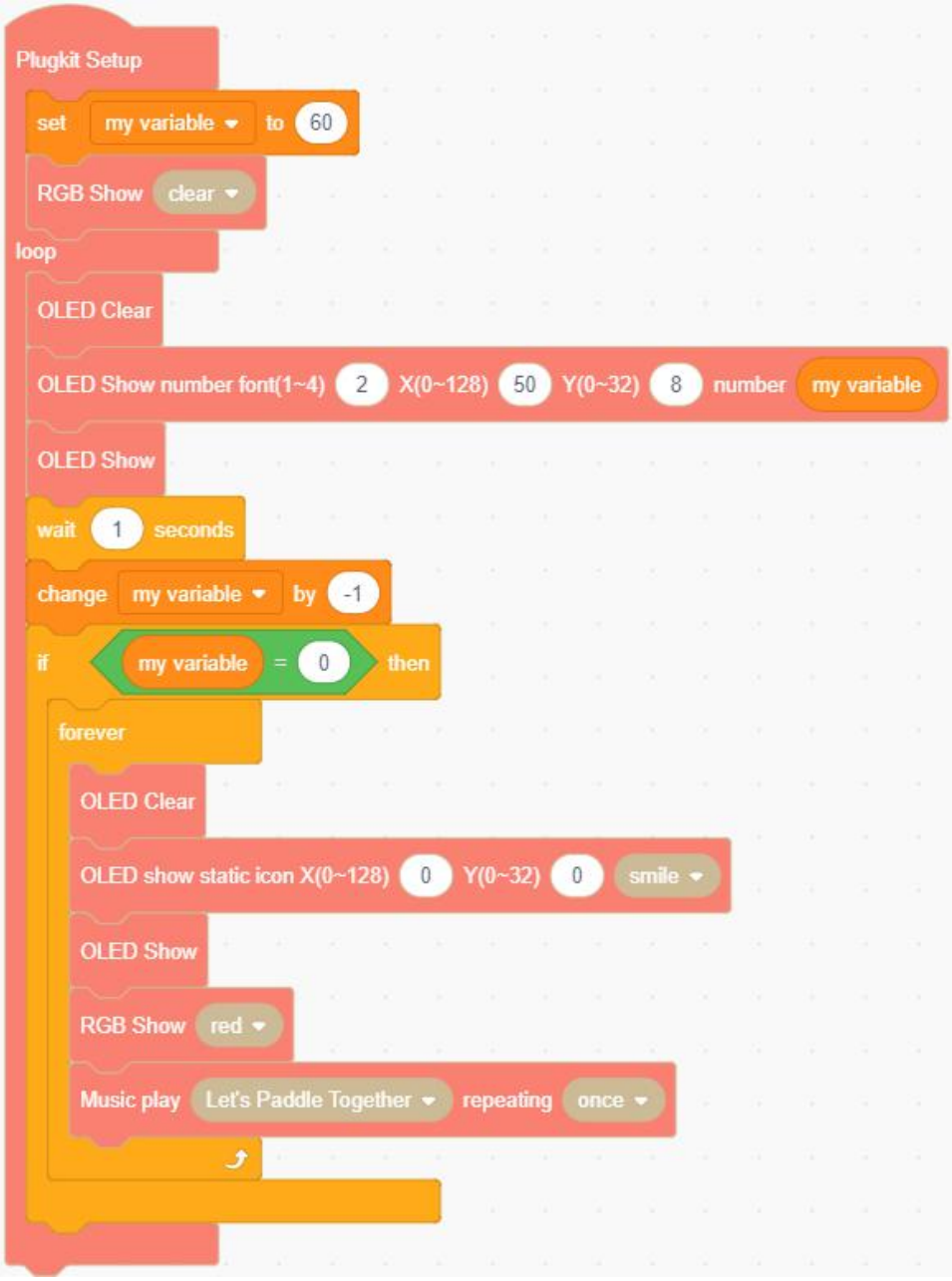
2.Set the OLED display digital font size to 2, the starting position to (50, 8), and the number to my variable to overlay the OLED clear screen. .



3.Change my variable by -1 every 1s. If my variable = 0, repeatedly execute the OLED display to show the static pattern smile, the RGB light face is red, and the buzzer play music .



4.Add Set my variable to 60 block, clear the RGB light block and put them in the setup, and put the combination of step 2 and step 3 in the loop block.



5.Compiling and uploading programs.

Experimental phenomena: The OLED shows 60s countdown in the center. When the countdown reaches 0s, the OLED display shows a smile, the RGB lights become red, and buzzer will play music. If you need to restart the countdown, just press the reset button of UNO board.