

## 2.2 Control RGB color

### 1.Learning goals

In this lesson, we mainly learn how to control the color of RGB by micro:bit and Super:bit expansion board, including control of one RGB light separately and control of 4 RGB lights at the same time.

### 2.Programming method

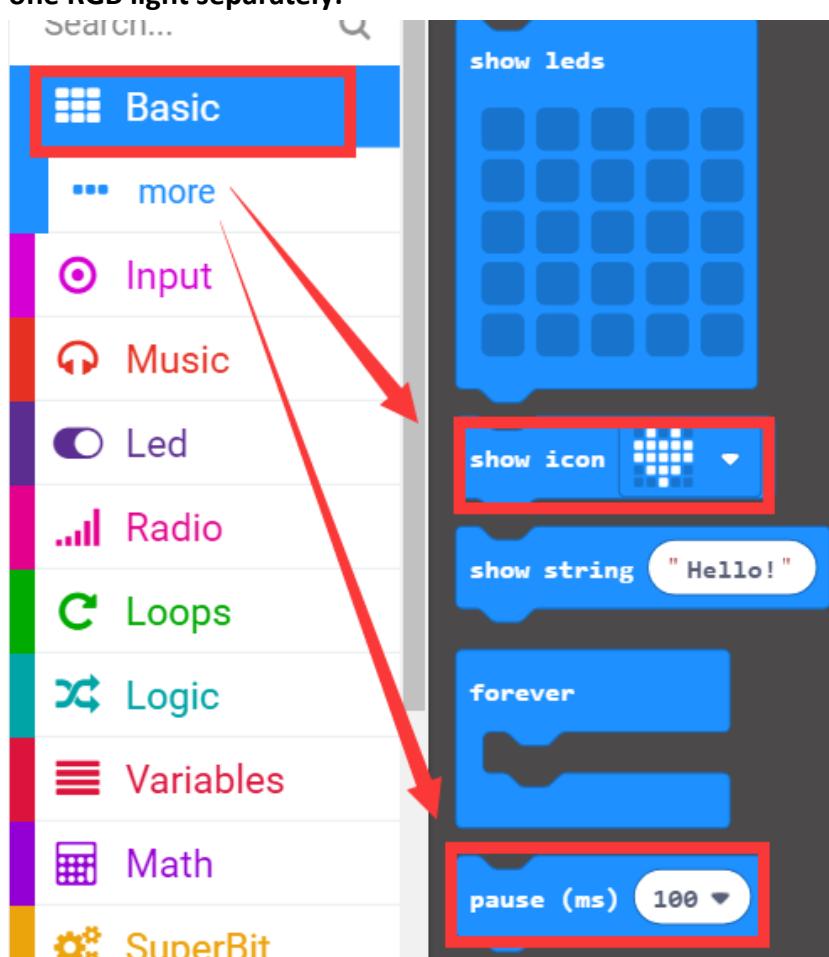
**Mode 1 online programming:** First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface. Add the Yahboom package <https://github.com/lzty634158/SuperBit> to program.

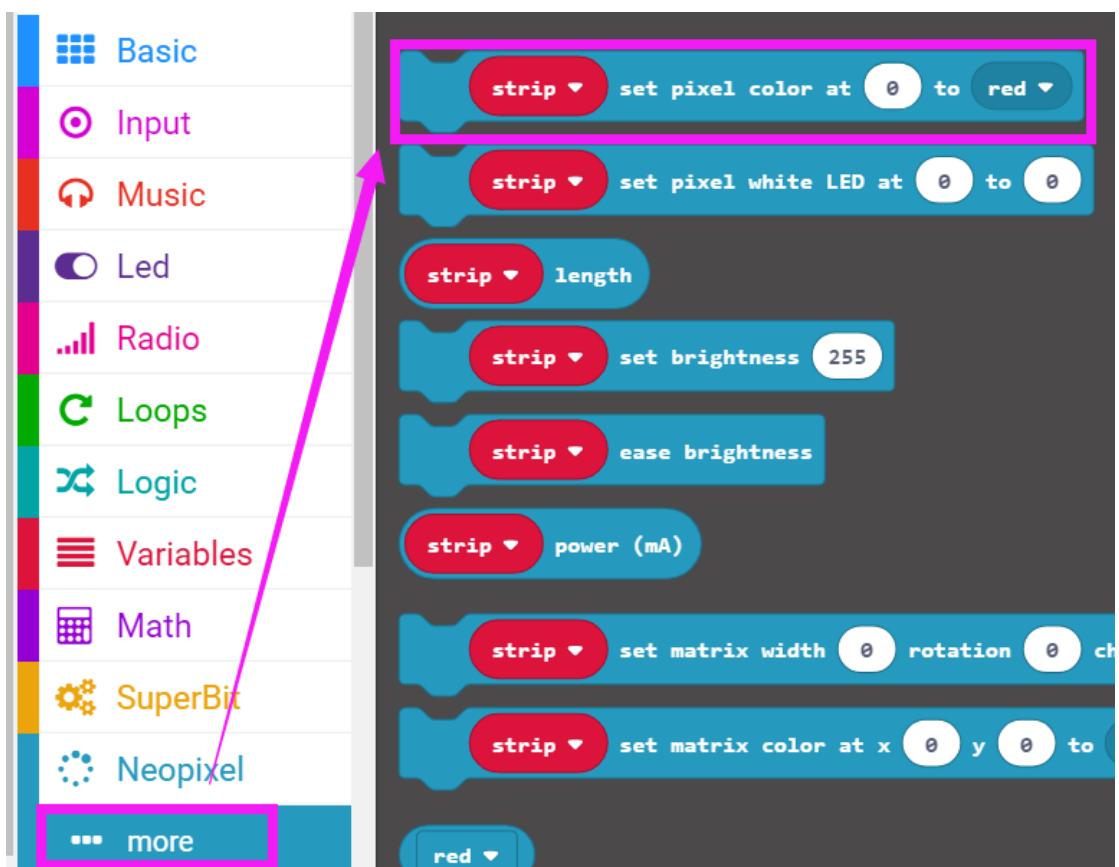
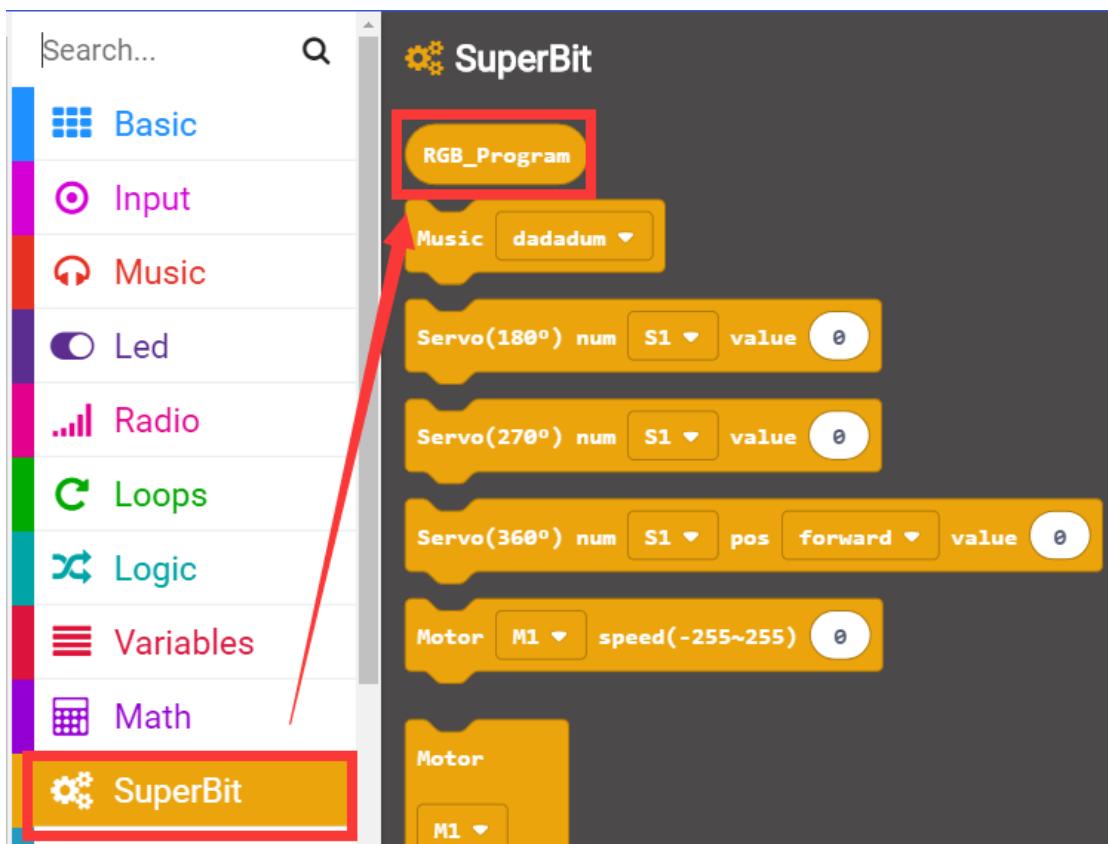
**Mode 2 offline programming:** We need to open the offline programming software. After the installation is complete, enter the programming interface, click 【New Project】 , add Yahboom package:  
<https://github.com/lzty634158/SuperBit>, you can program.

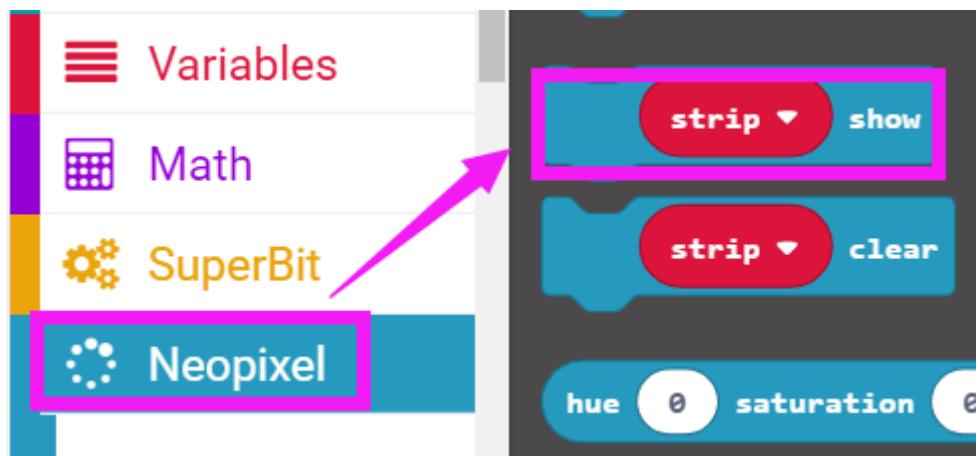
### 3.Looking for blocks

The following is the location of the building blocks required for this programming.

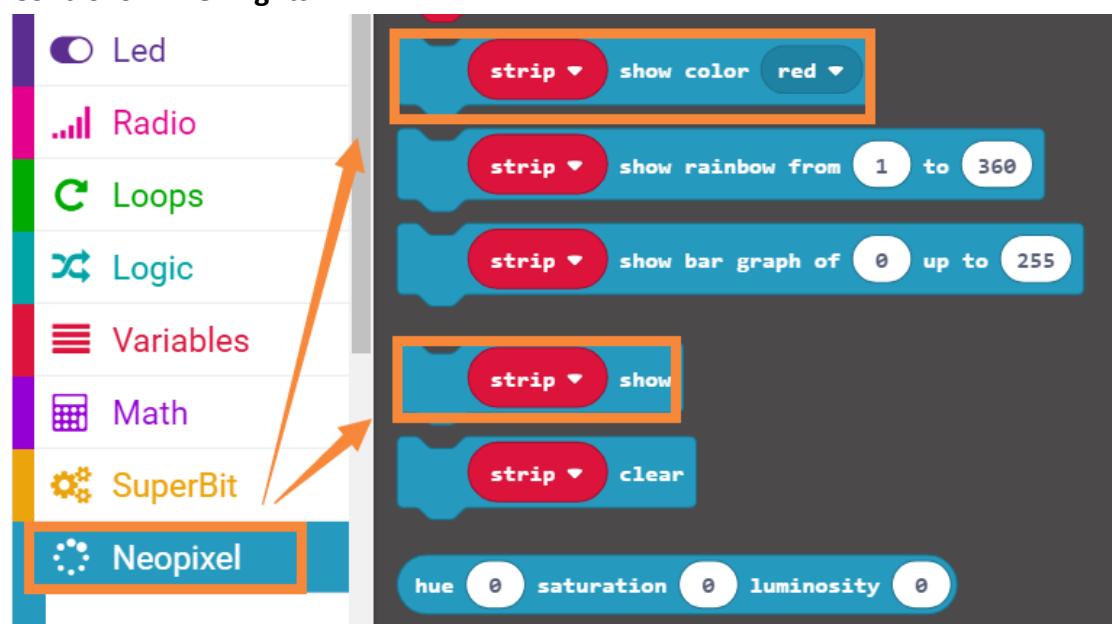
#### Control of one RGB light separately:

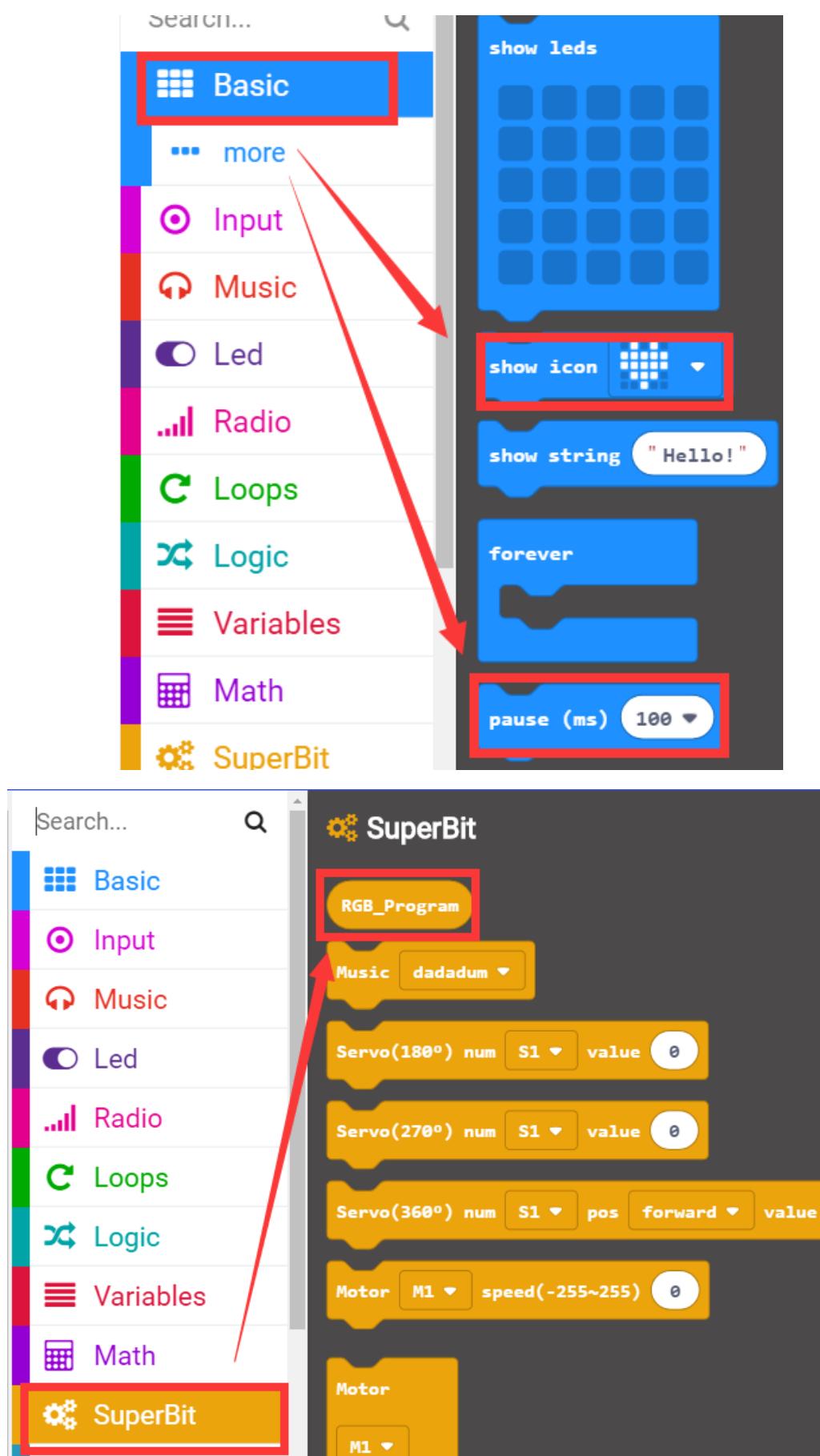






Control of 4 RGB lights:

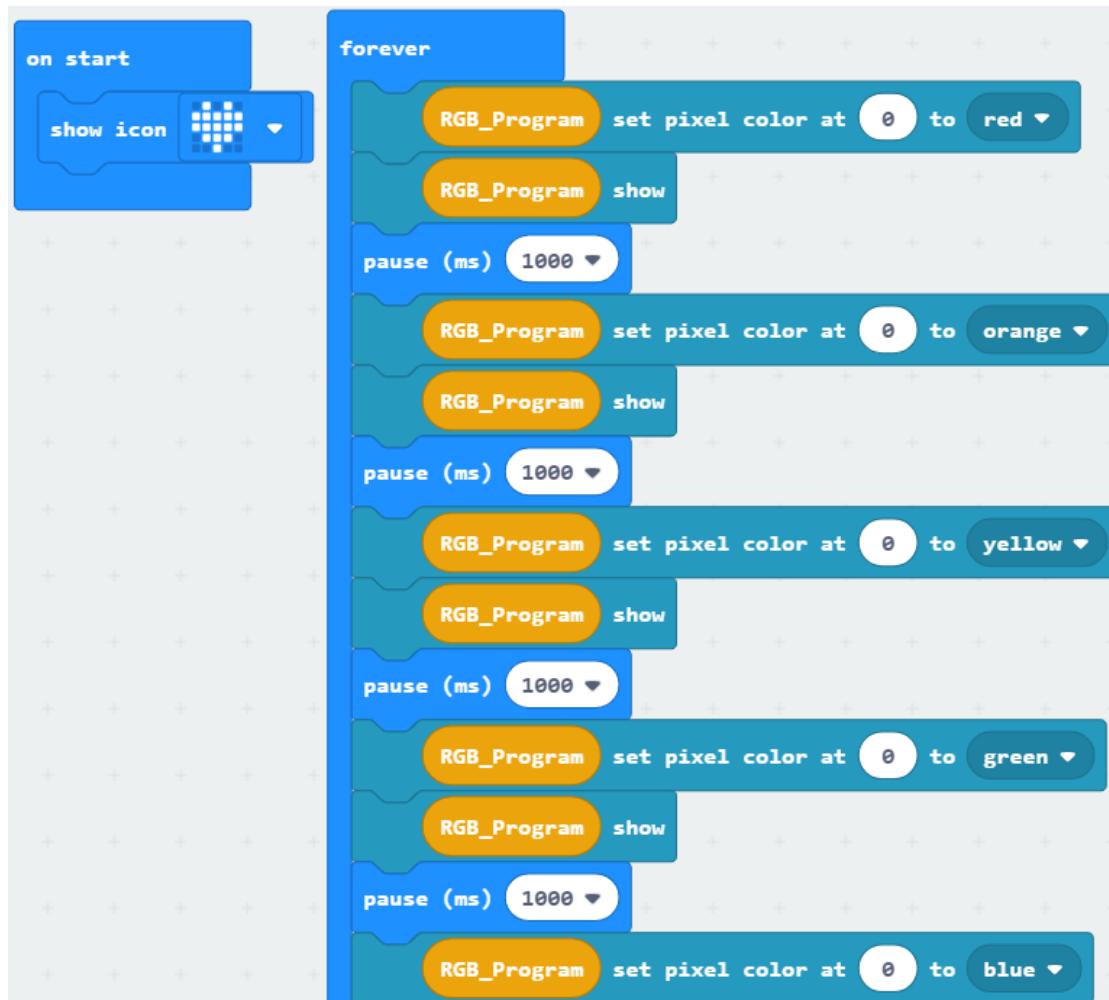


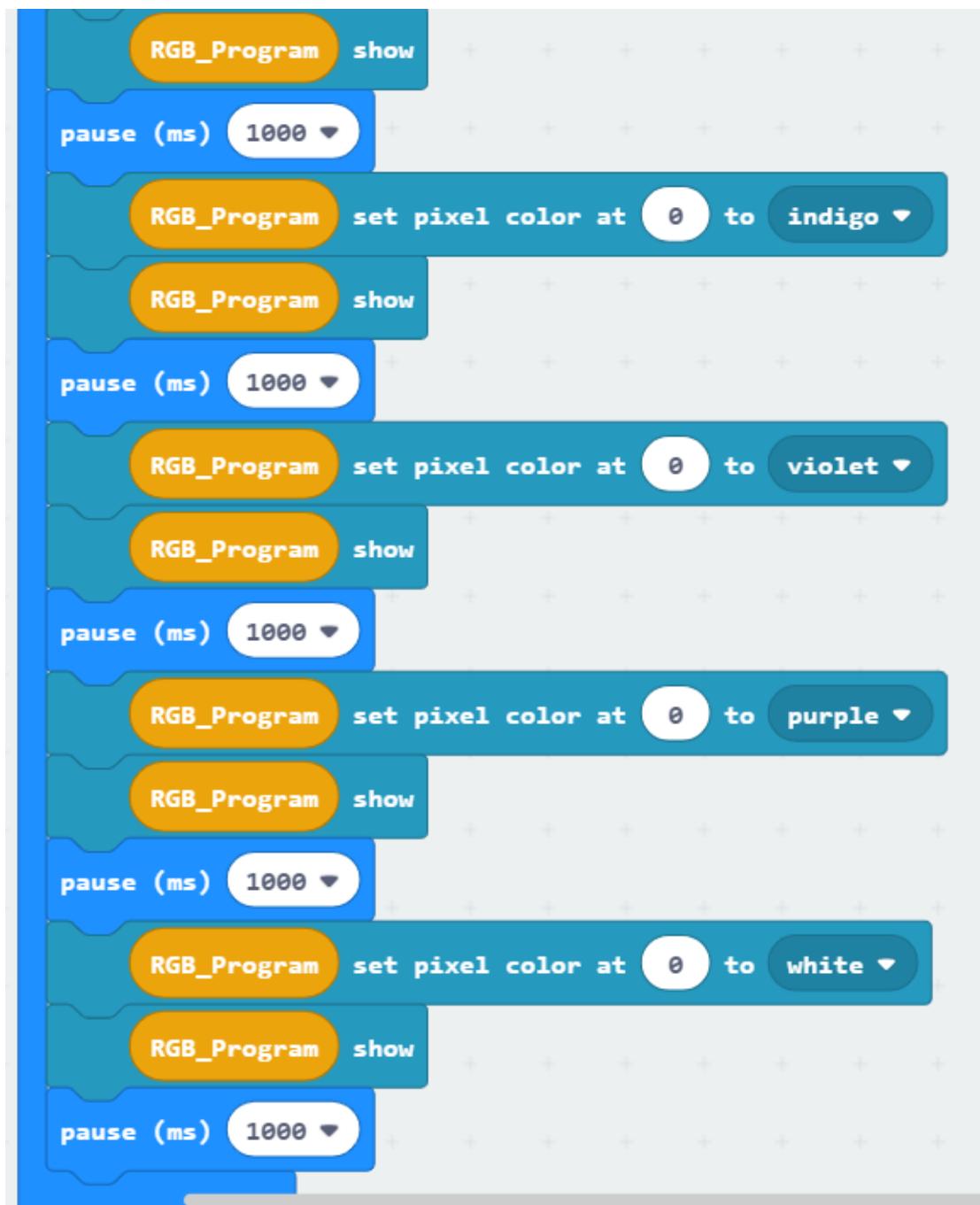


#### 4.Combine building block

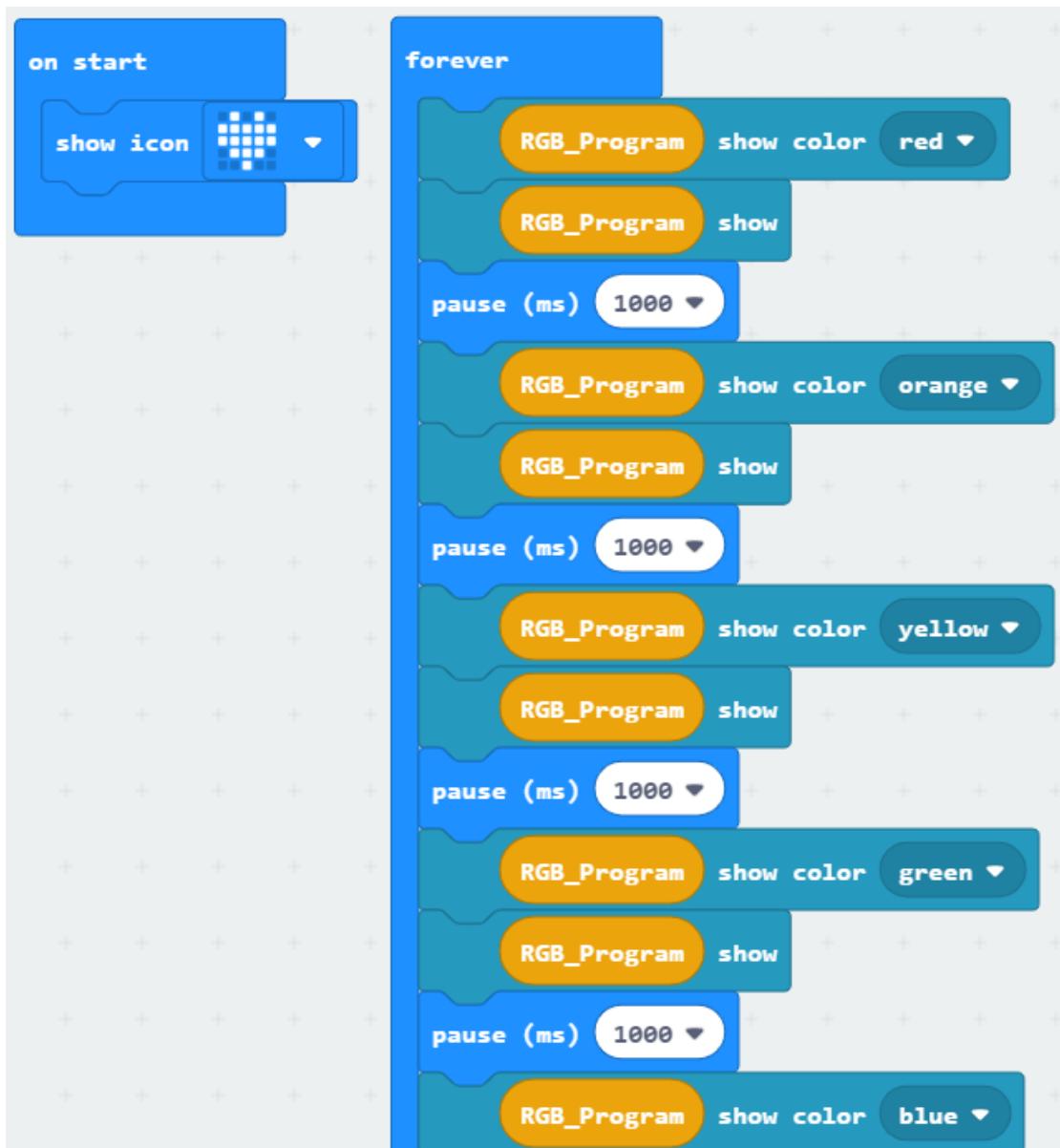
The summary program is shown below:

**Control of one RGB light separately:**





Control of 4 RGB lights:





## 5. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will display the heart pattern .

### Control of one RGB light separately:

The color of the 0th RGB lamp is changed every 1 seconds.

### Control of 4 RGB lights:

The color of all RGB lamp is changed every 1 seconds.

If you need to start over, press the reset button on the back of the micro:bit board.