

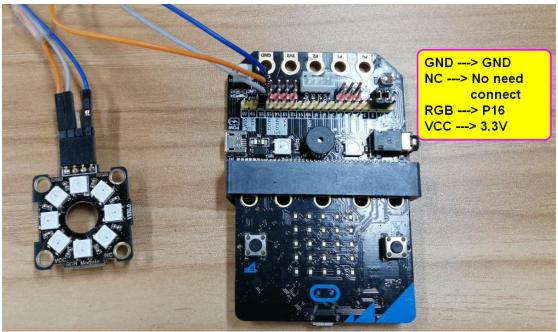
#### Marquee

## 1. Learning target

In this course, we will learn how to use Micro:bit and RGB light module to achieve light up a RGB.

### 2. Preparation

Connect the module to Micro:bit board by expansion board, as shown below.



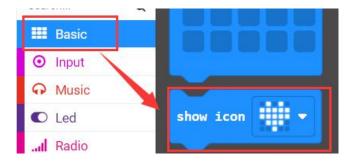
# 3. Programming method

**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: <a href="http://microbit.org/">http://microbit.org/</a> to enter the programming interface.

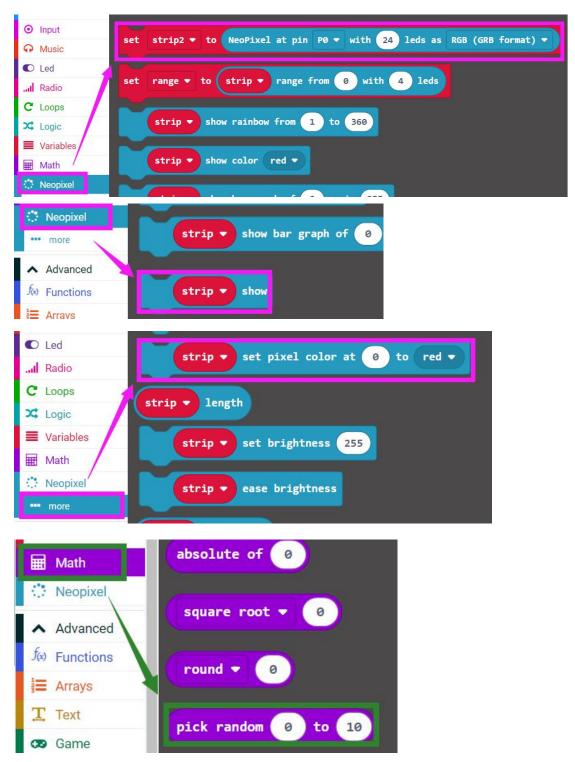
**Mode 2 offline programming:** We need to open the offline programming software. After the installation is complete, enter the programming interface, click \[ \ \] New Project \[ \] , you can start programming.

### 4.Looking for blocks

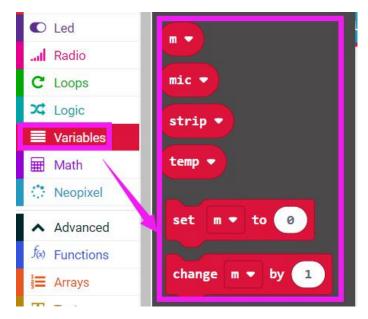
The following is the location of the building blocks required for this programming.











#### 5.Combine block

The summary program is shown below.

The value of m represents the number of the RGB light that is lit each time. After m=8, the value of m is set to 0, and the RGB light is restarted.

# 6.Experimental phenomena

After the program is downloaded successfully, Micro:bit dot matrix will display heart, all the RGB lights on the module are randomly lit in color to achieve the effect of a marquee.