# Music_and_heart

## 1.Learning goal

In this lesson, we mainly know LED:bit and learn the use of building blocks in the LEDBit extension package.

It is realized by programming: the coordinate points are lit on the LED:bit to form a love pattern, and the buzzer plays different tones.

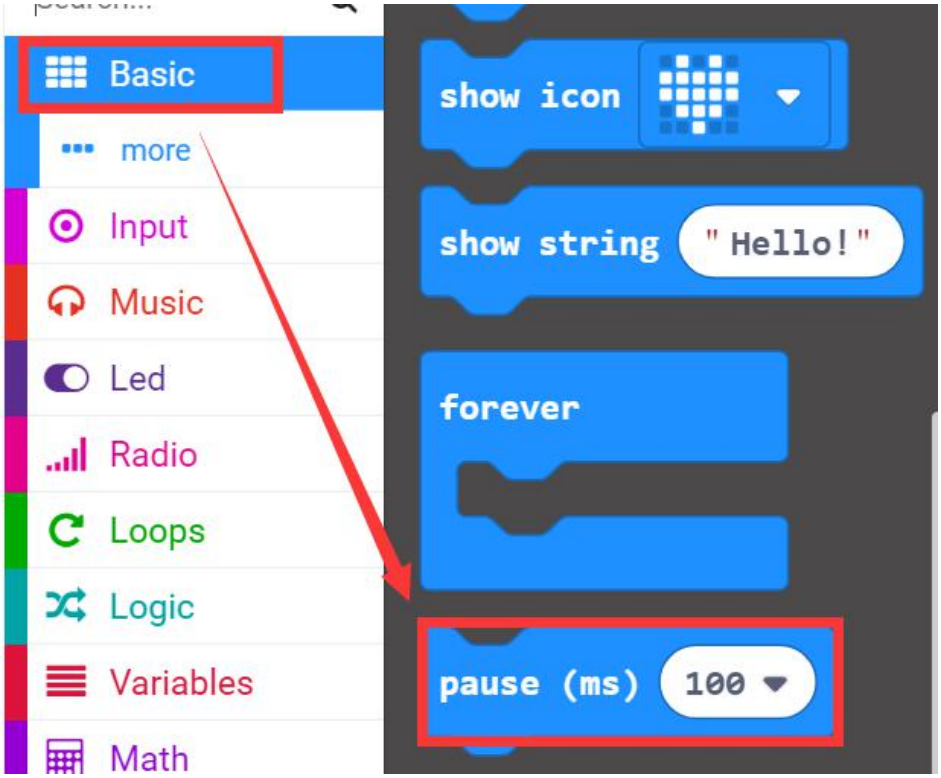
## 2.Programming method

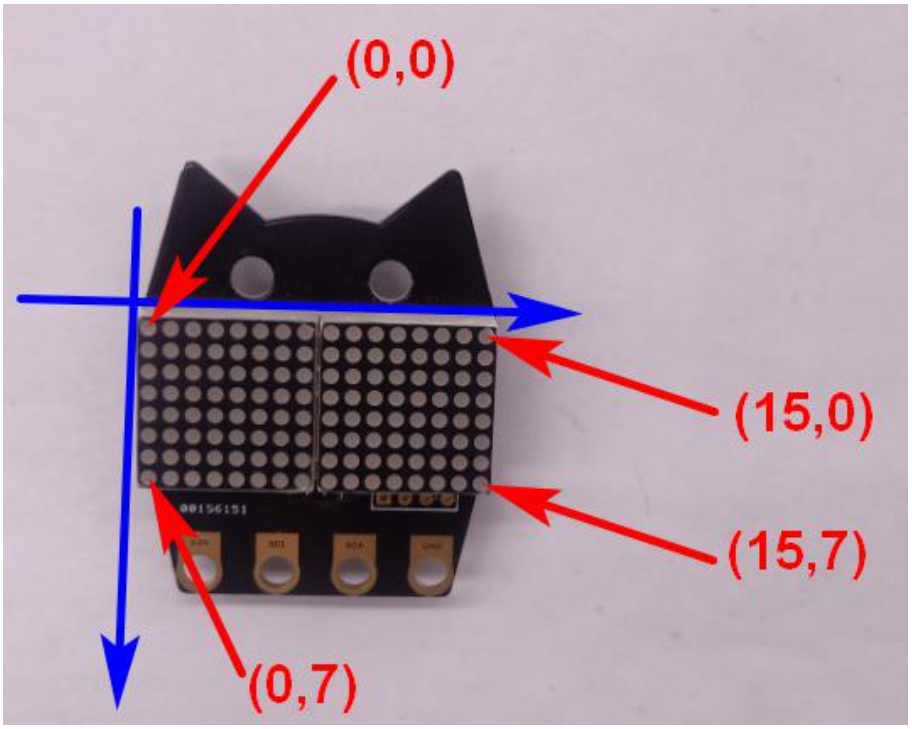
**Mode 1 online programming:** First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: **http://microbit.org/** to enter the programming interface. Add the Yahboom package **https://github.com/lzty634158/LED-Bit**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

## 3.Looking for blocks

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

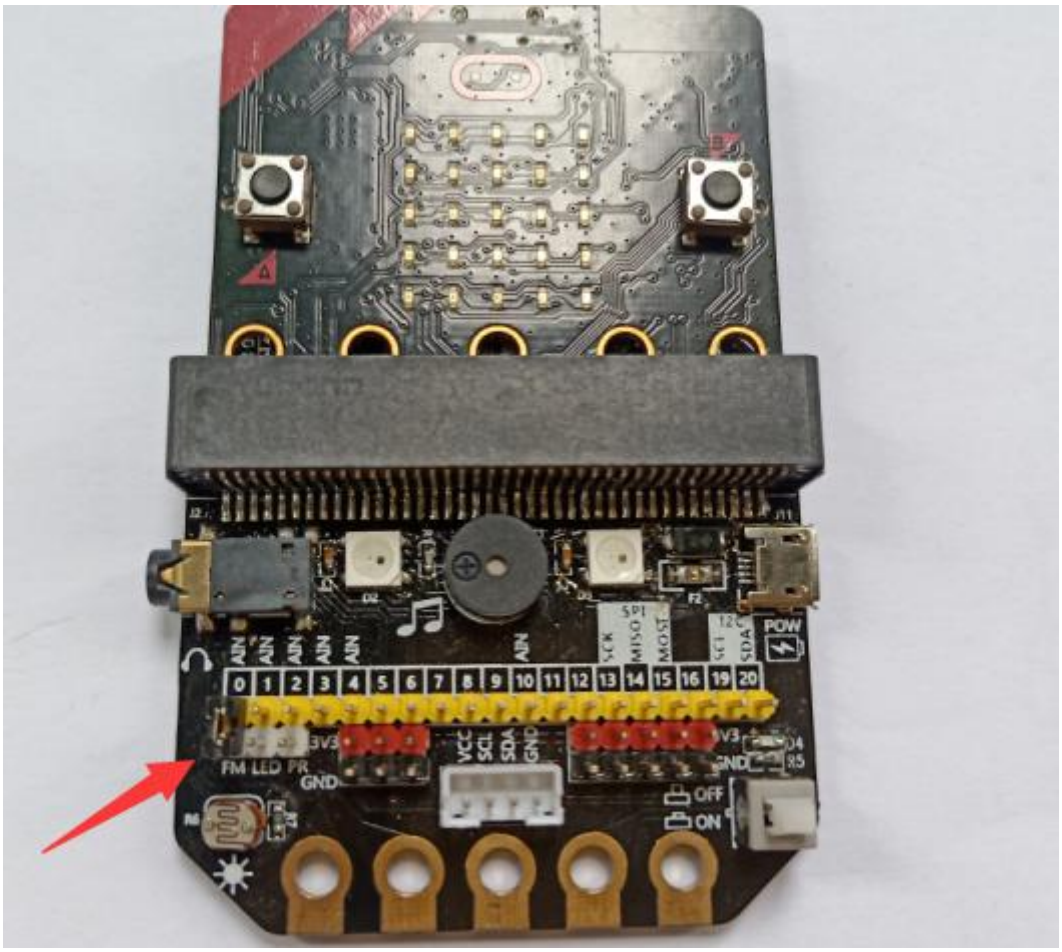



**4.Combine building block**

The summary program is shown below:

**Note: The jumper cap needs to be connected to the P1 and LED pins on the Basic:bit expansion board. As shown below.**




**5. Experimental phenomena**

After the program download is successful, we can see that the LED:bit will light up different coordinate points in sequence to form a love pattern and different tones will be played by buzzer, as shown in the figure below.