

Play music

1.Learning goals

In this lesson we mainly know buzzers and learn how to make the micro:bit IO expansion board play music by graphical programming.

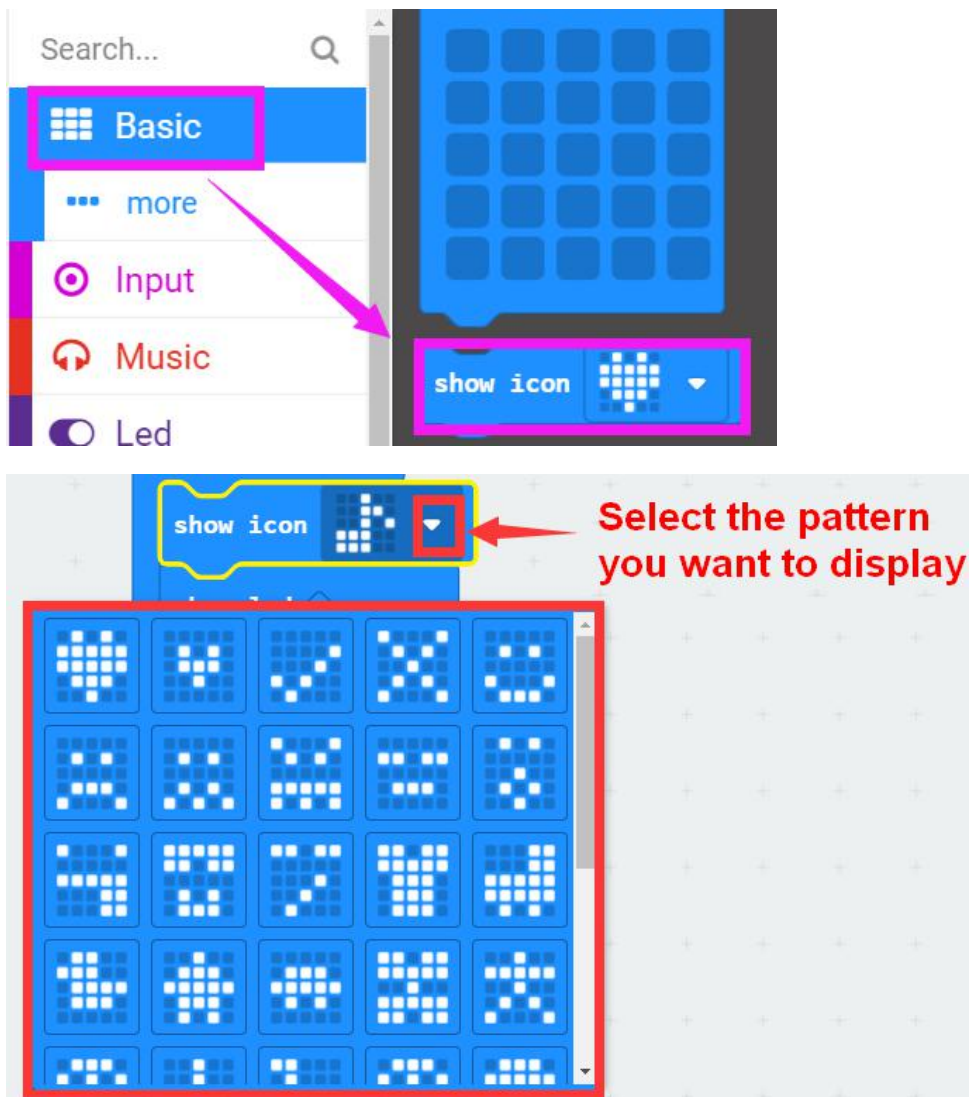
2.Programming method:

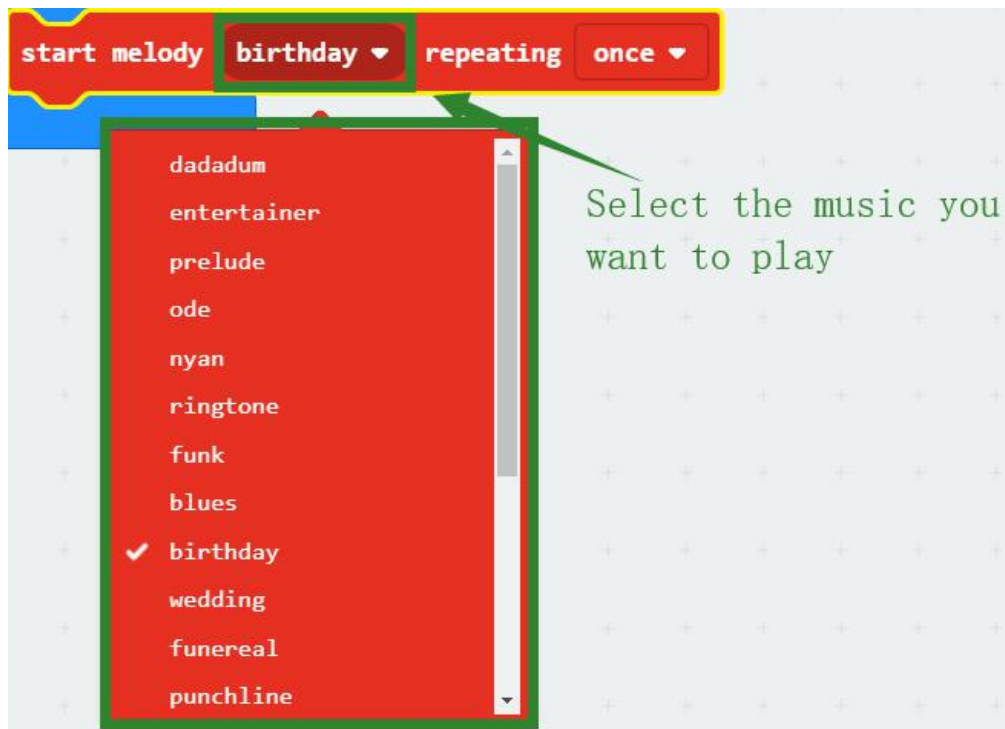
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface to program.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click **【New Project】** to program.

3.Looking for blocks

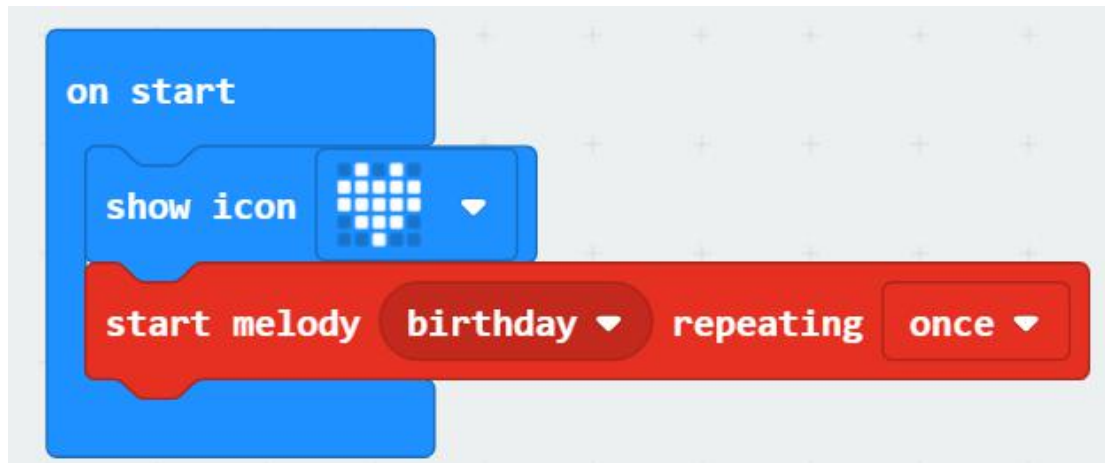
The following is the location of the building blocks required for this programming.



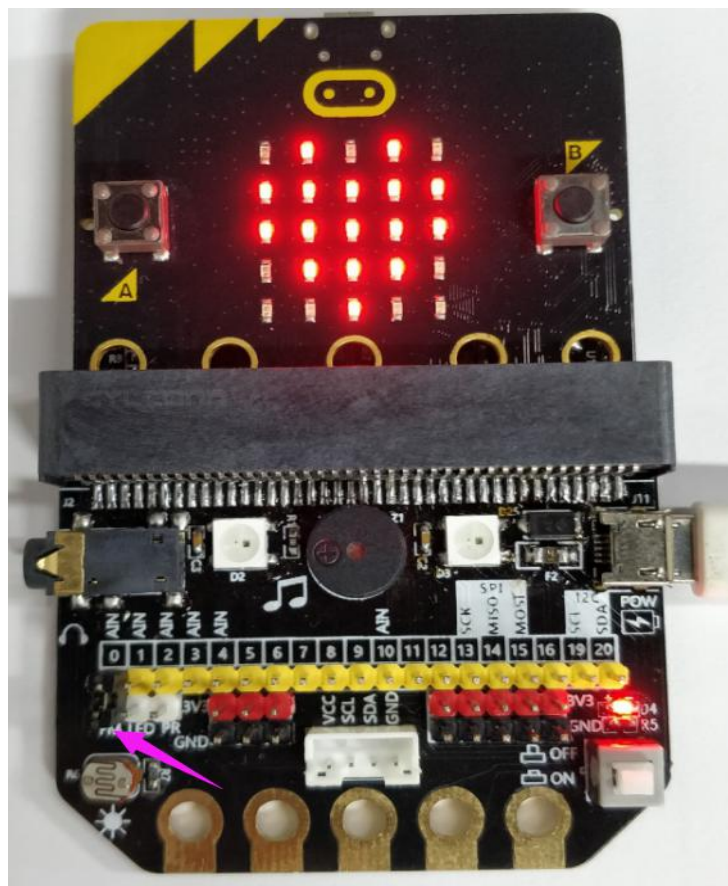


4.Combine building block

The summary program is shown below:



Note: The jumper cap needs to be connected to the P0 and FM pins on the basic expansion board. As shown below.



5. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will flash the heart pattern and play the music "Happy Birthday" once, as shown below. If you need to start over, press the reset button on the back of the micro:bit board.

