

Music

1.Learning goals

In this lesson, we mainly learn how to control buzzer on the Super:bit expansion board to play music.

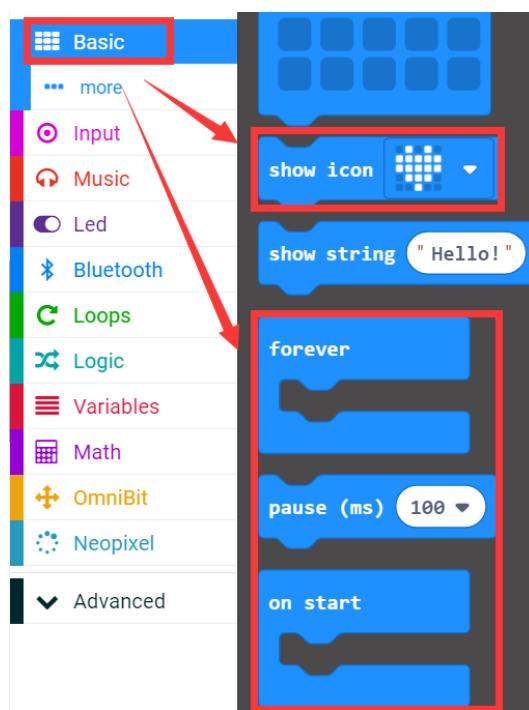
2.Programming method

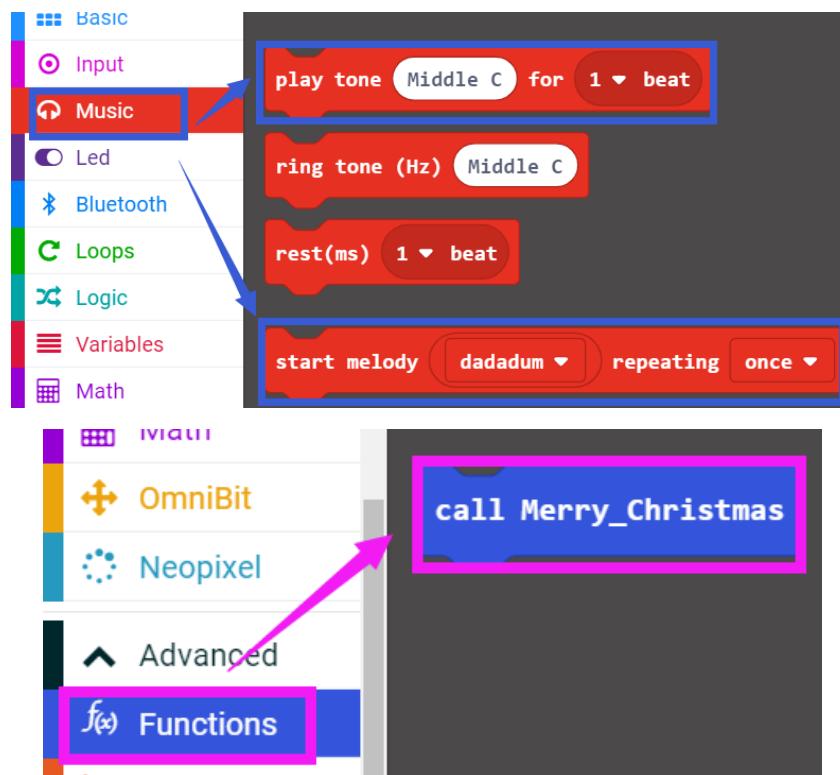
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface. Add the Yahboom package <https://github.com/lzty634158/OmniBit> 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/OmniBit>, 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 [microbit-Music.hex](#).

5. Assembly steps

Please refer to the [1.Omnibit installation steps](#) in the [1.Assembly steps](#) folder for building blocks assembly steps.

6. About wiring

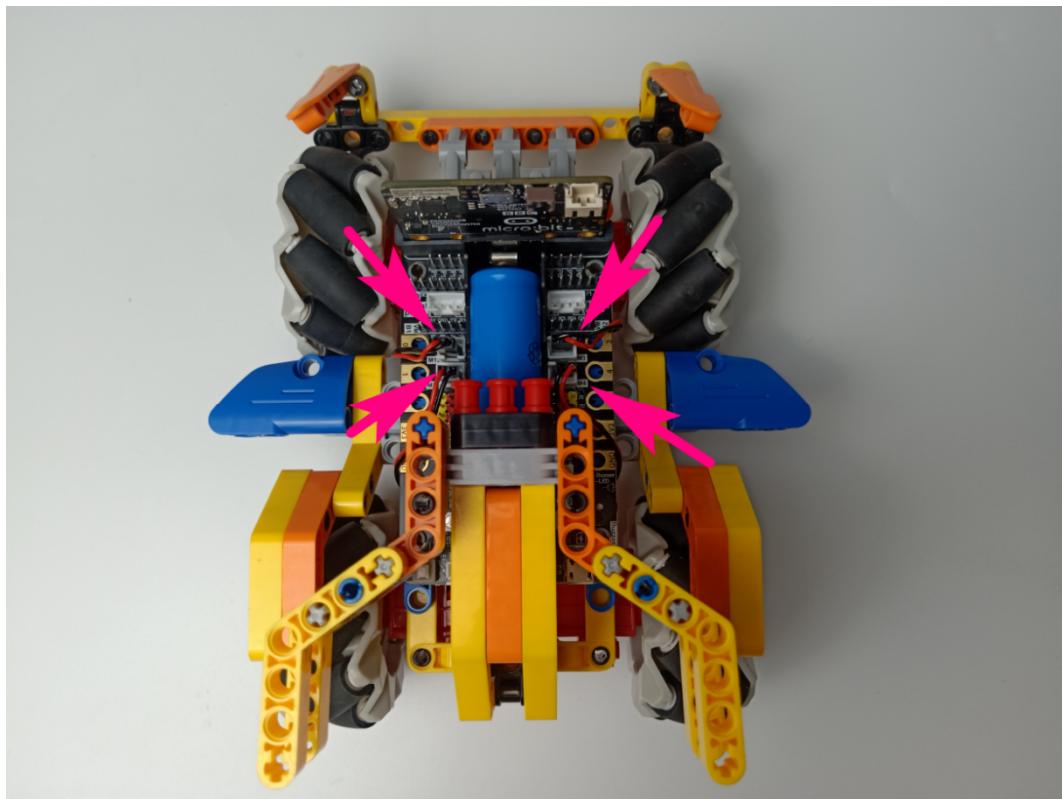
The left front motor is connected to the M1 interface of the Super:bit expansion board. The black line is on the battery side;

The left rear motor is connected to the M2 interface of the Super:bit expansion board, The black line is on the battery side;

The right front motor is connected to the M3 interface of the Super:bit expansion board, The black line is on the battery side;

The right rear motor is connected to the M4 interface of the Super:bit expansion board, The black line is on the battery side.

As shown below.



7. Experimental phenomena

After the program is successfully downloaded, micro:bit dot matrix will display “smile” pattern and we can hear that buzzer will play music <Merry Christmas>. After 2 seconds, buzzer will play <ODE>.