Button control robot

1.Learning goals

In this lesson, we mainly learn how to control building block motor by micro:bit and Super:bit expansion board.

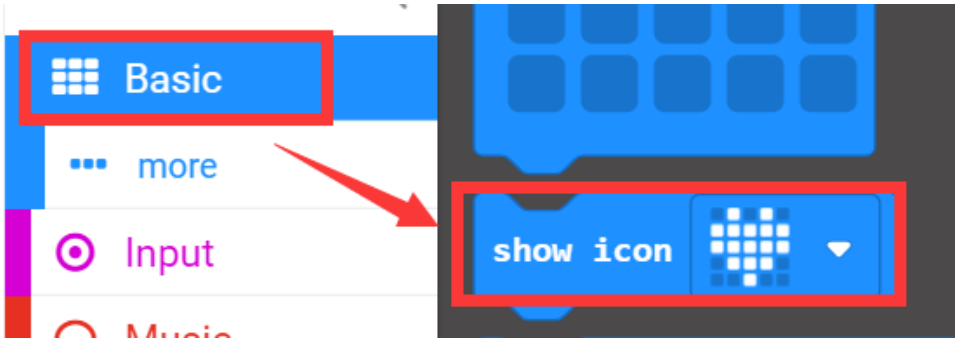
2.Programming method

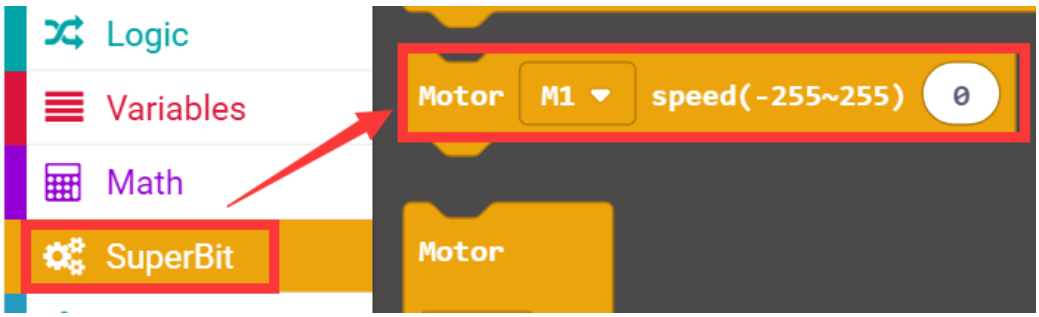
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: **http://microbit.org/** to enter the programming interface. Add the Yahboom package https://github.com/lzty634158/SuperBit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

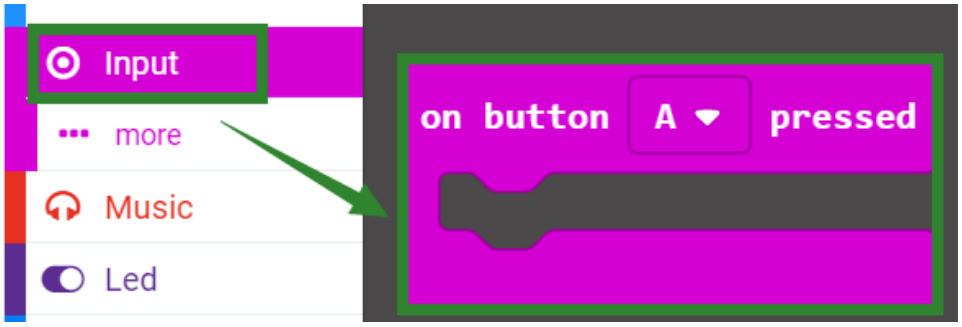
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, add Yahboom package: https://github.com/lzty634158/SuperBit, you can program.

3.Looking for blocks

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

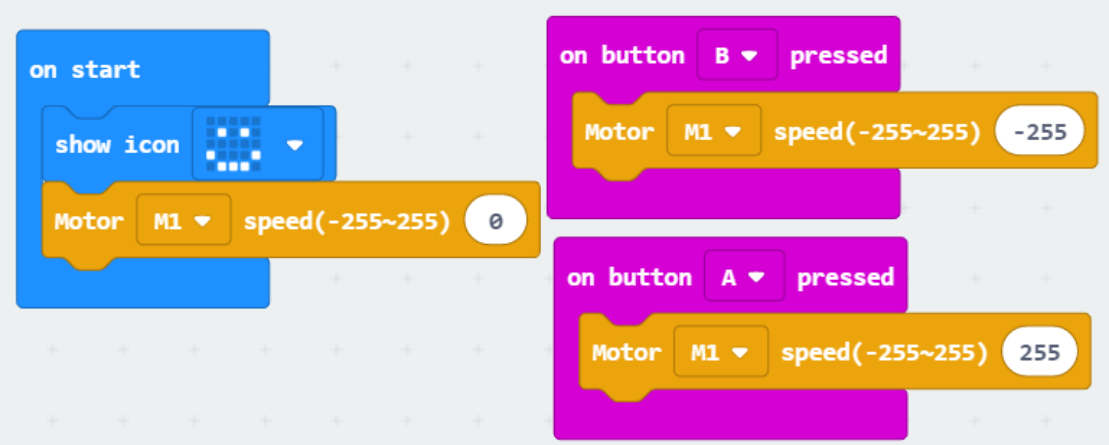






4.Combine building block

The summary program is shown below:



5.Assembly steps

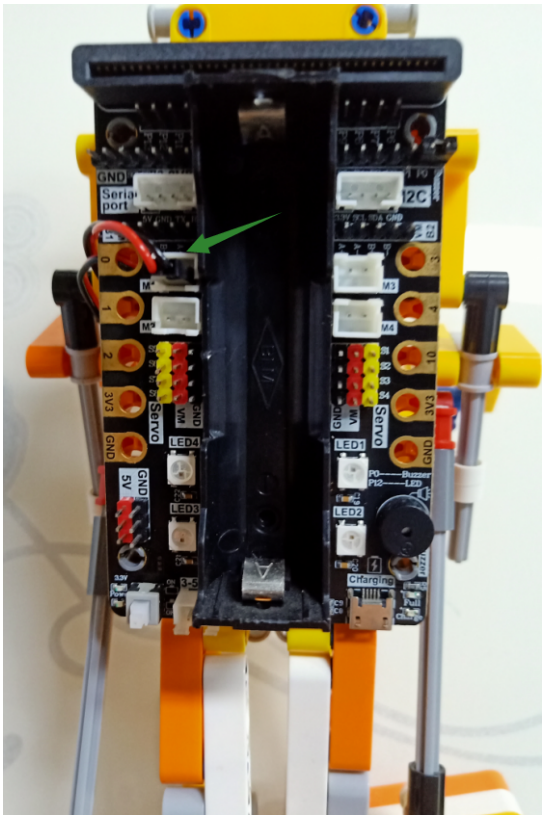
Please refer to **Assembly instructions** folder for building blocks assembly steps.

6.About wiring:

As shown below,

Building block motor connect to M1 interface of super:bit.

The black wiring of the motor is near the battery side.



7. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will

display the smile pattern and the robot will stop, when we press the A button, the robot will advance, when we press the B button, the robot will back.