

## Advance

### 1.Learning goals

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

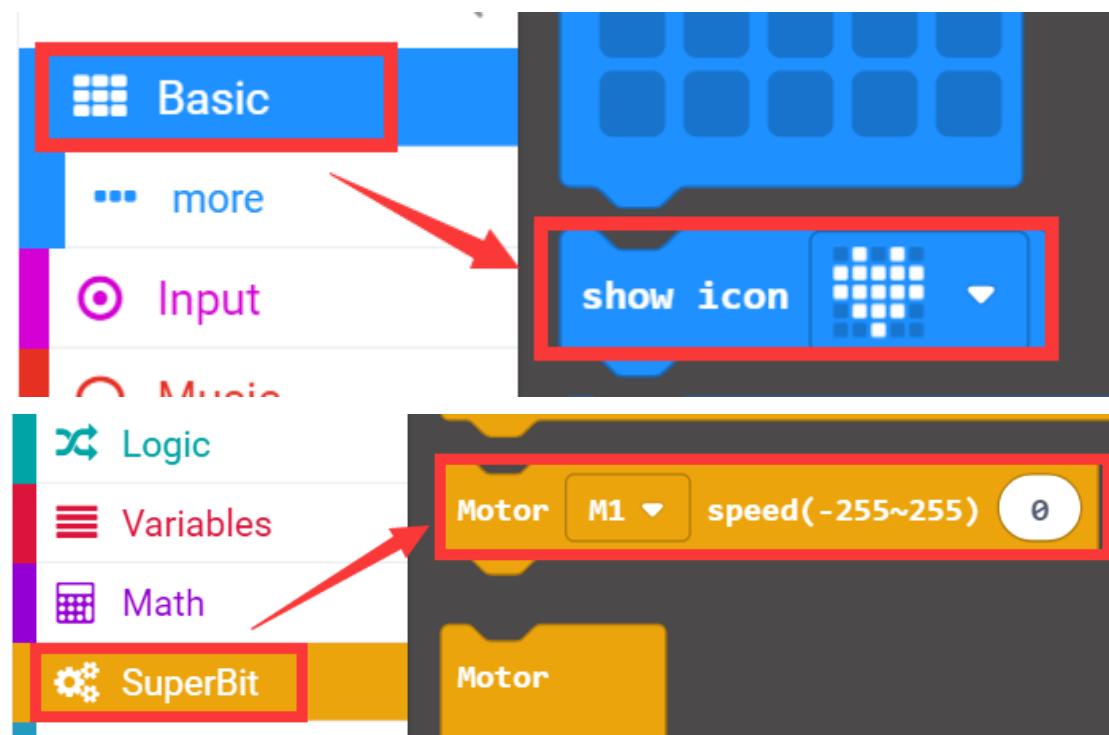
### 2.Programming method

**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.

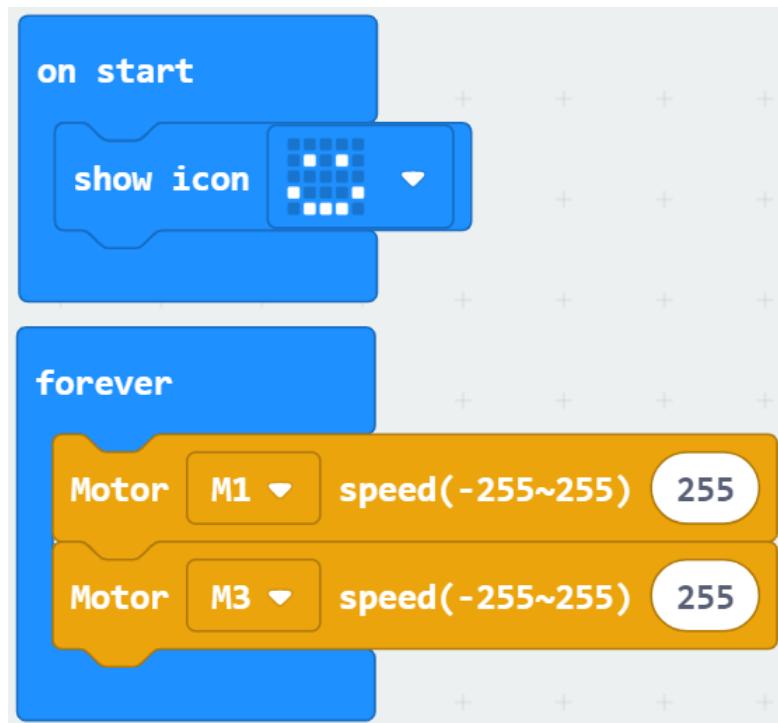
### 3.Looking for blocks

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

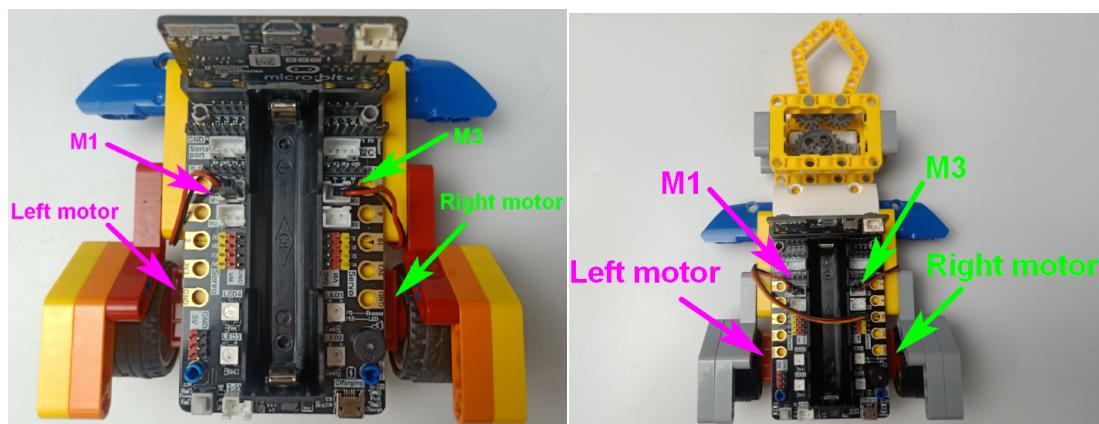
Please refer to the **assembly steps** in the **Assembly instructions** folder for building blocks assembly steps.

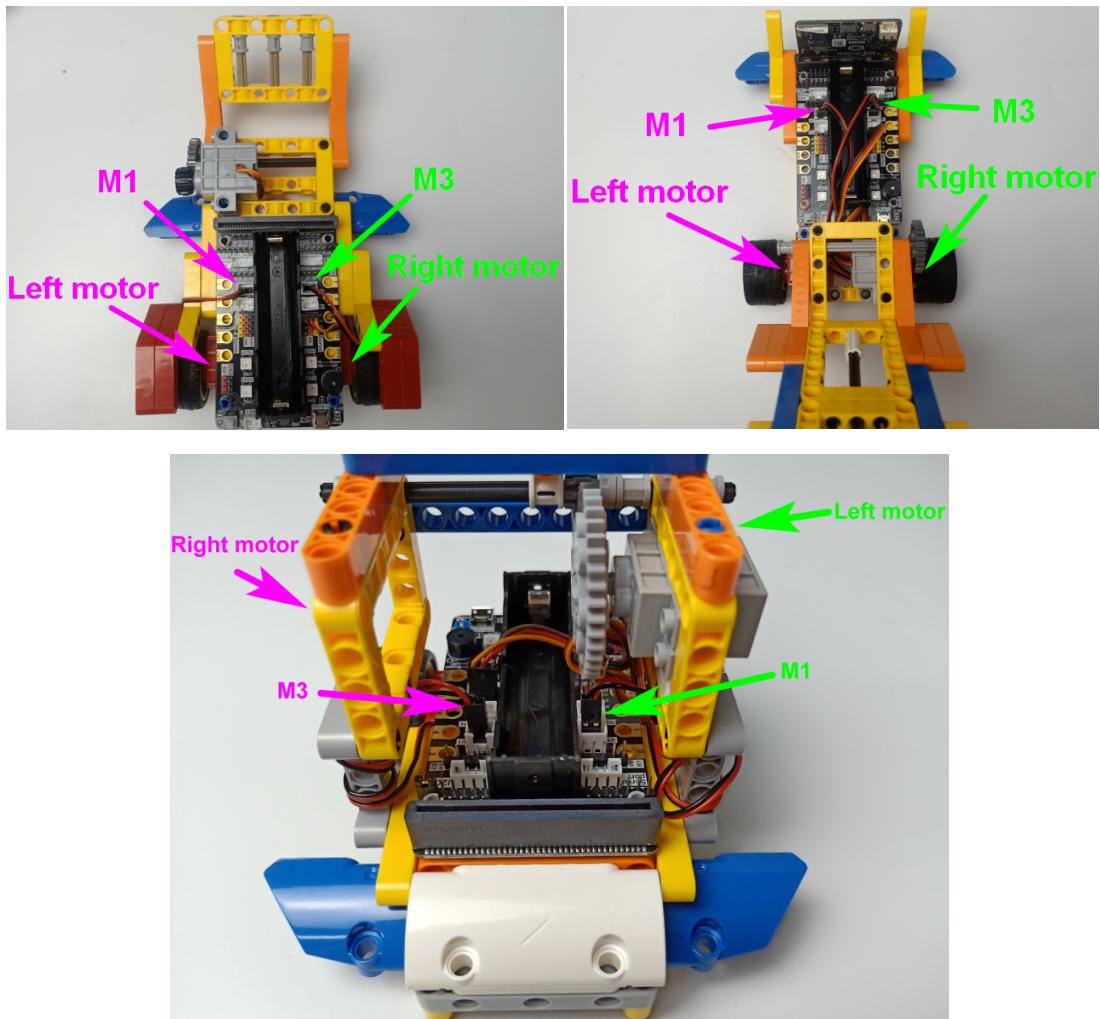
## 4. About wiring:

As shown below,

Left motor connect to M1 interface of super:bit.

Right motor connect to M3 interface of super:bit.





## 5. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will display the smile pattern and the car will advance.

If you need to start over, press the reset button on the back of the micro:bit board.