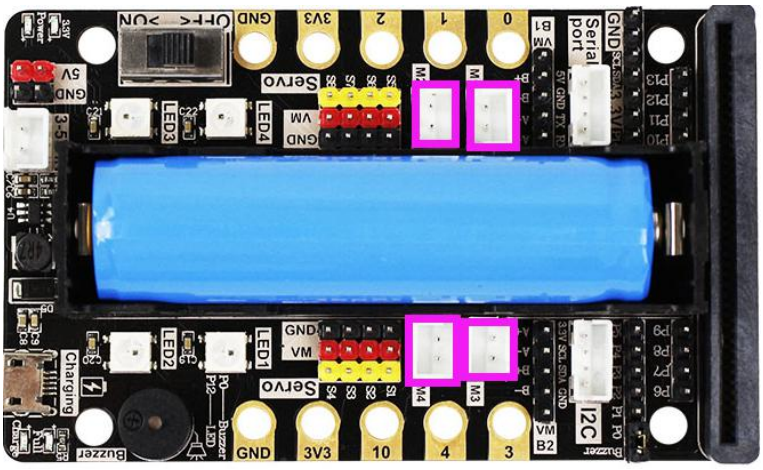
Drive motor

1.Learning goals

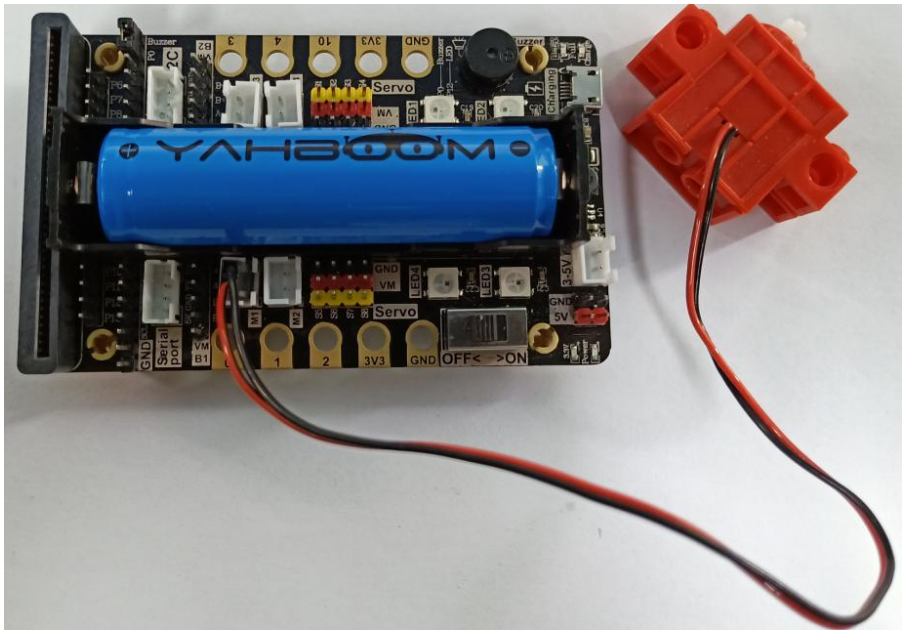
In this course, we mainly learn how to drive motor connected to the superbit expansion board through MakeCode graphical programming.

Motor interface is located on the expansion board as shown in the figure below.



2.Wiring of motor

The motor wiring need to be inserted into the Super:bit expansion board M1 interface, as shown below.



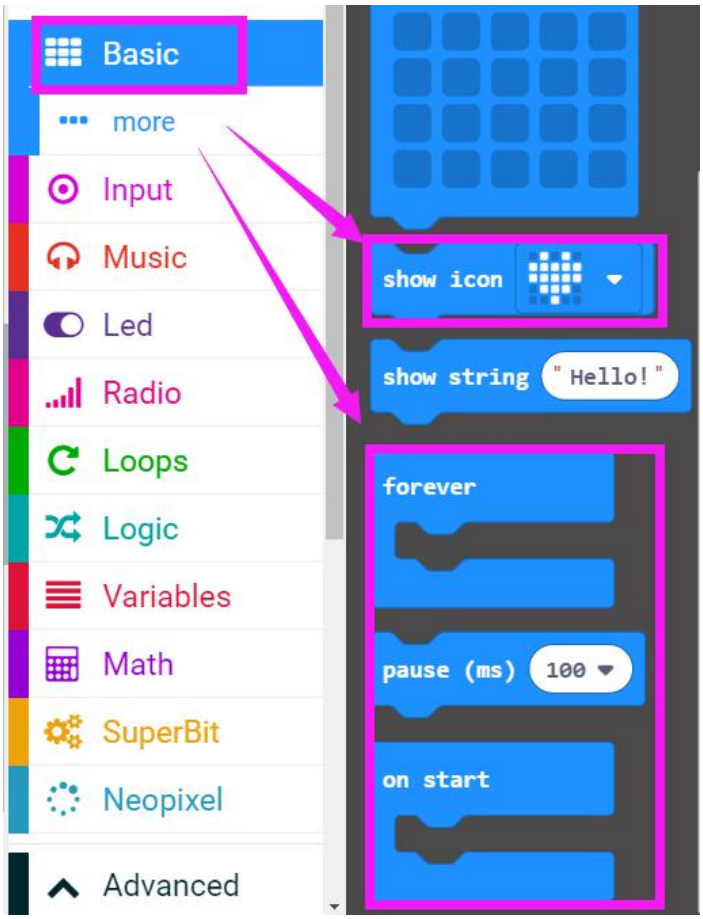
3. Programming method

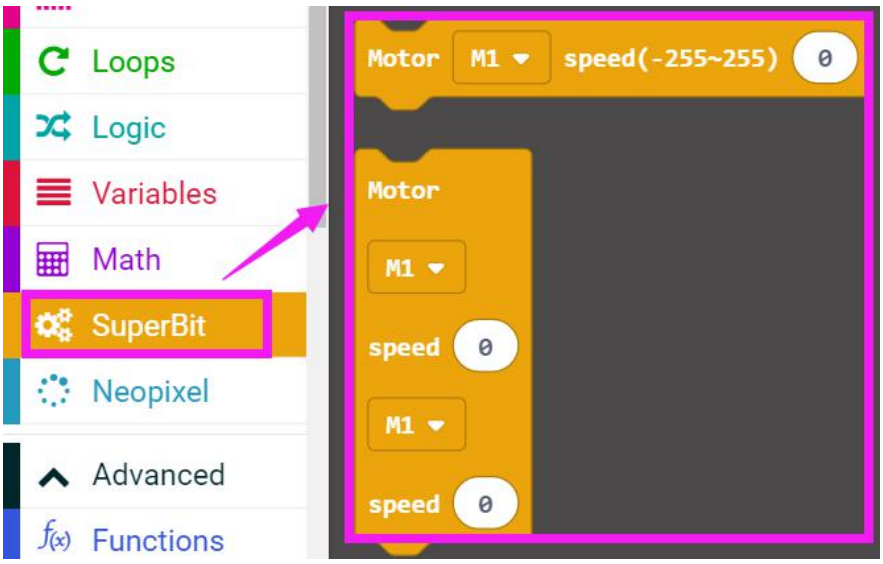
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: http://microbit.org/ to enter the programming interface. Add the Yahboom package **https://github.com/lzty634158/SuperBit**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

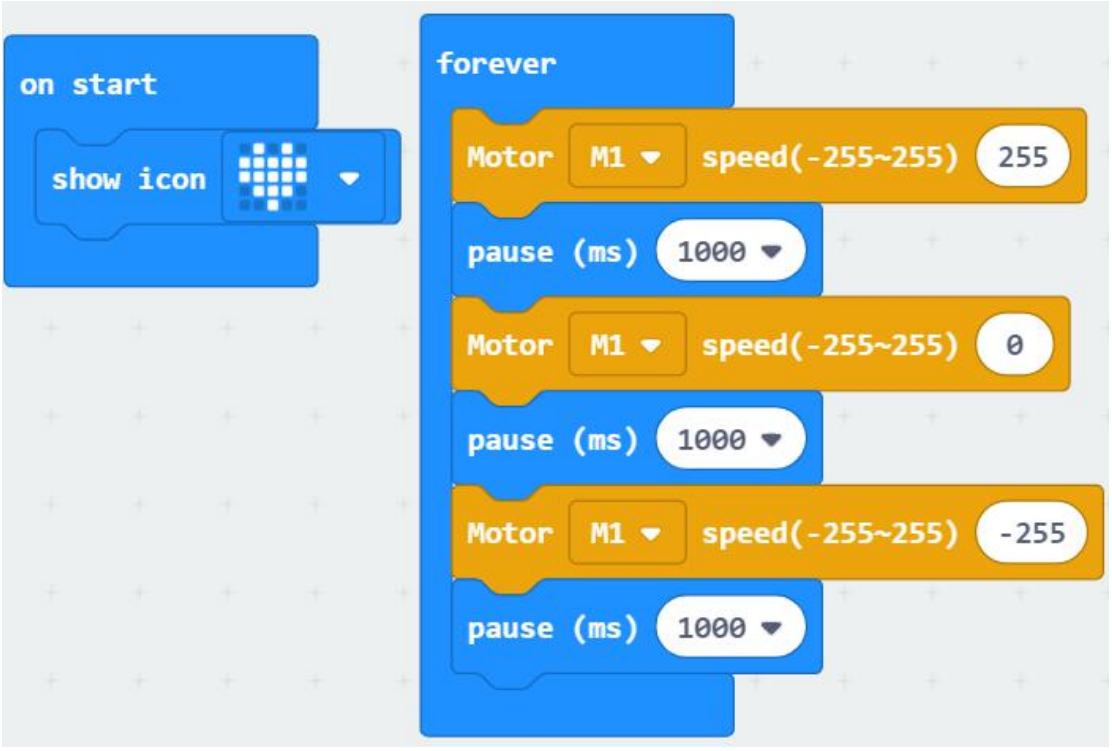
The following is the location of the building blocks required for this programming.





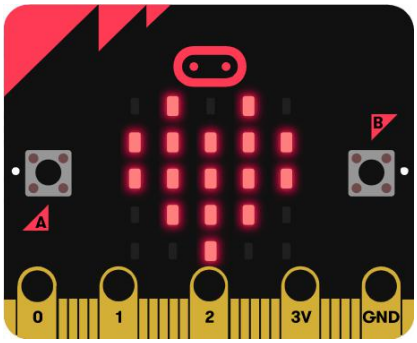
4.Combine block

The summary program is shown below.



5.Experimental phenomena

After the program is successfully downloaded, the micro: bit dot matrix will display the heart pattern, as shown below. Then, we can see motor starts to rotate forward for 1 second, stops for 1 second, and reverses for 1 second, and keeps cycling in this state.



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