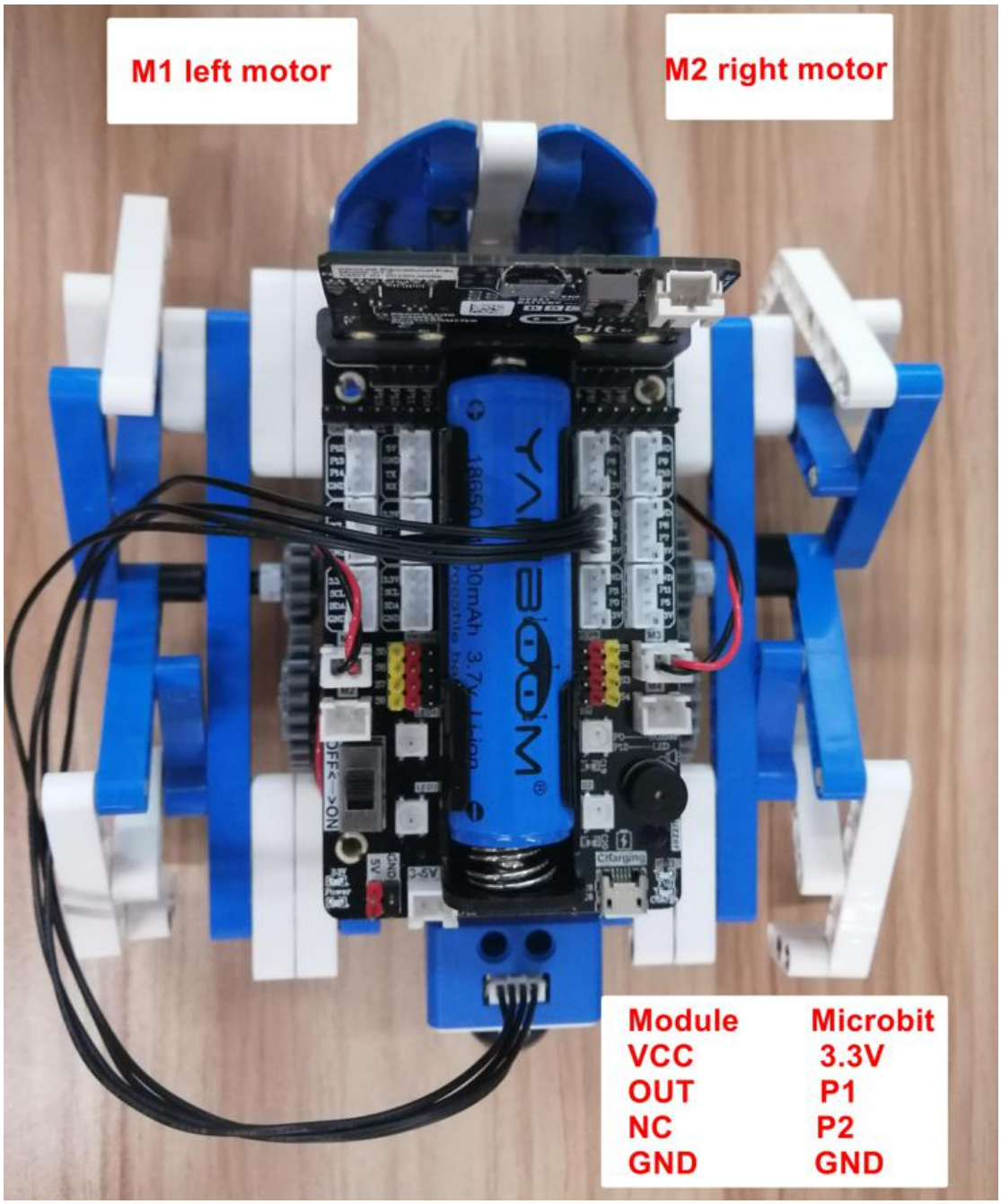
Spiders sense human body

1. Learning target

In this course, we will learn how to use Micro:bit , super:bit board and human body infrared sensor module to achieve Spiders sense human body function.

2. Preparation

Connect the module to Micro:bit board by expansion board, as shown below.



3.Programming method

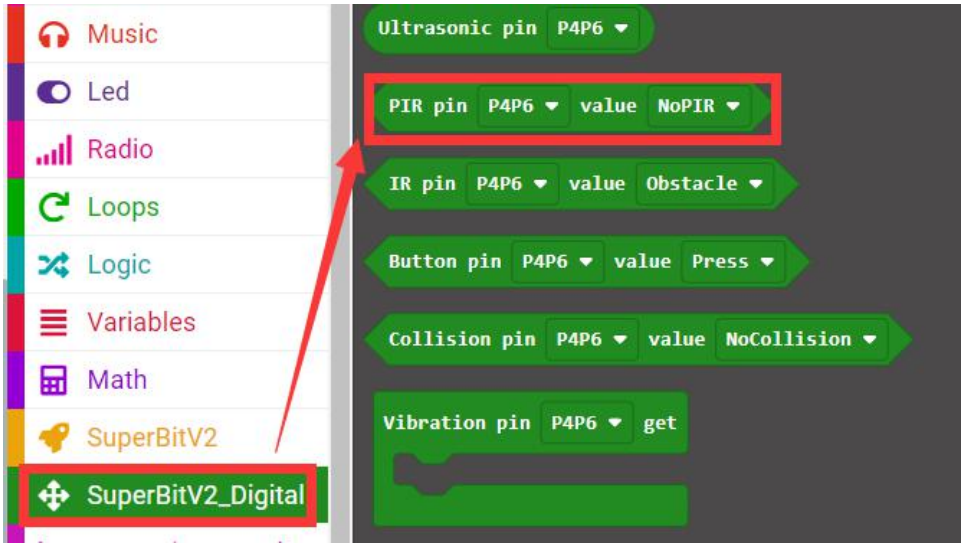
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the

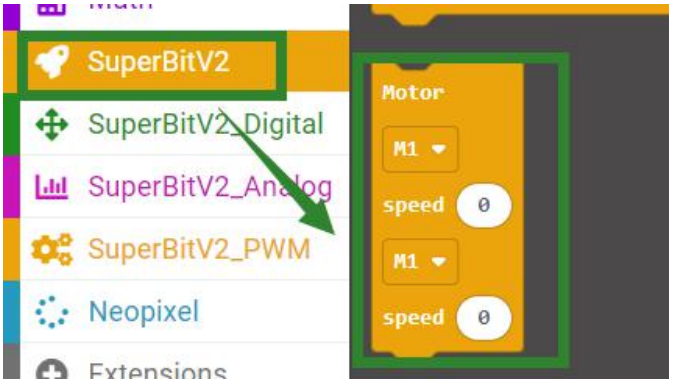
URL in the USB flash drive: http://microbit.org/ to enter the programming interface. Add the Yahboom package https://github.com/YahboomTechnology/SuperBitLibV2 to program.

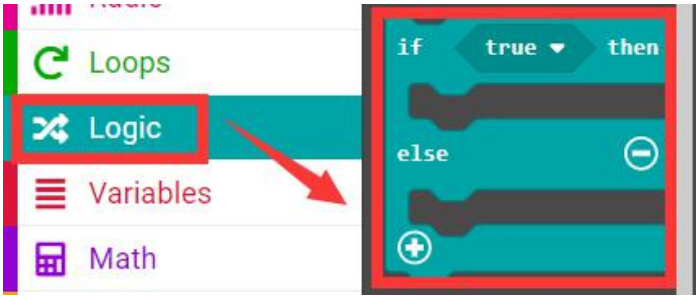
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, add Yahboom package: https://github.com/YahboomTechnology/SuperBitLibV2 , you can start programming.

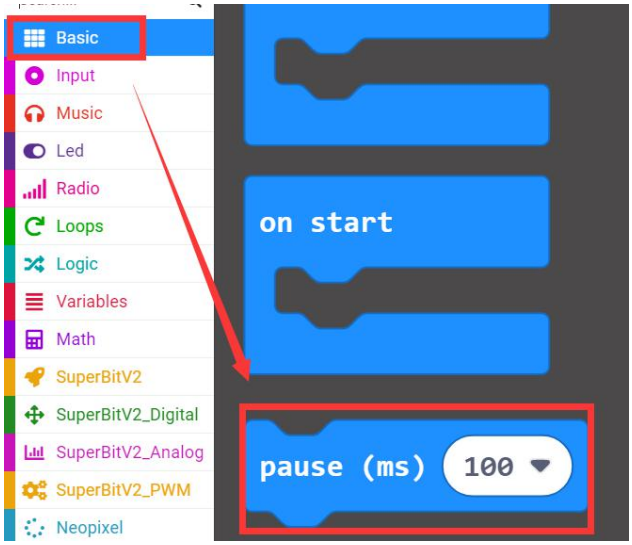
4.Looking for blocks

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



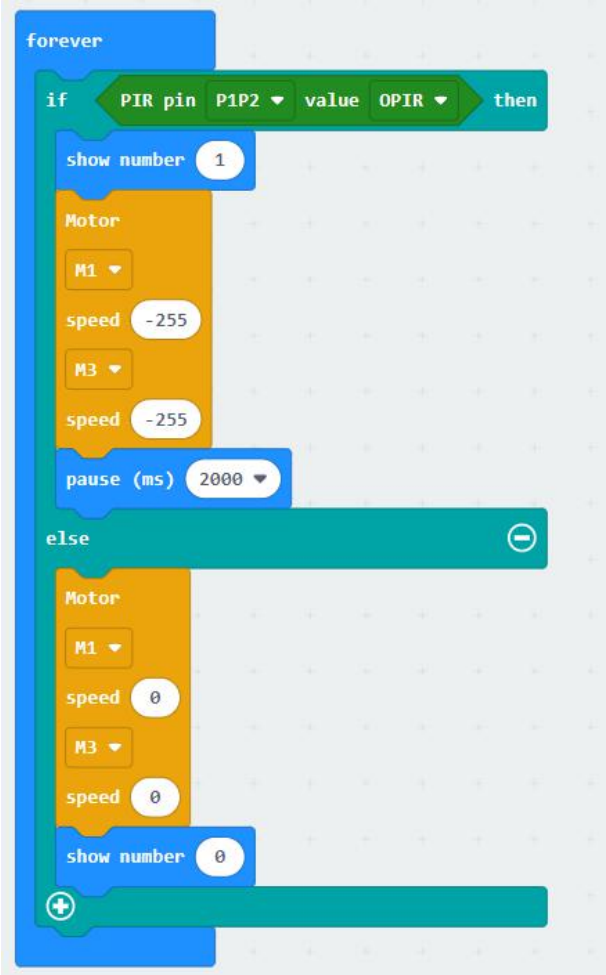






5.Combine block

The summary code is shown below.



6.Experimental phenomena

After the program is downloaded successfully. When we turning on the power switch, the micro:bit board will display 0 after initialization.

When the human infrared module detects an obstacle behind, the dot matrix

displays 1, and the spider moves forward for 2 seconds, otherwise the spider is in a stationary state and the micro:bit board displays 0.