

Responder

1.Learning goals

In this session we mainly use alligator clips and tin foil, and learn how to use the input blocks to read whether pins P0, P1 and P2 are touched. Micro:bit quickly determines which of P1 and P2 triggers the responder first by programming.

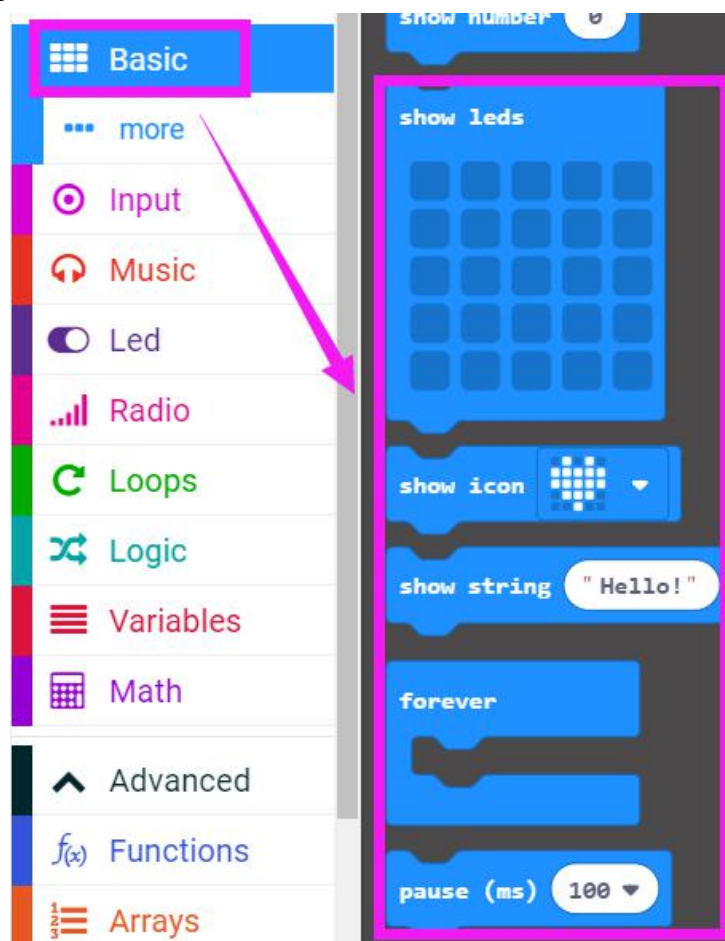
2.Programming method:

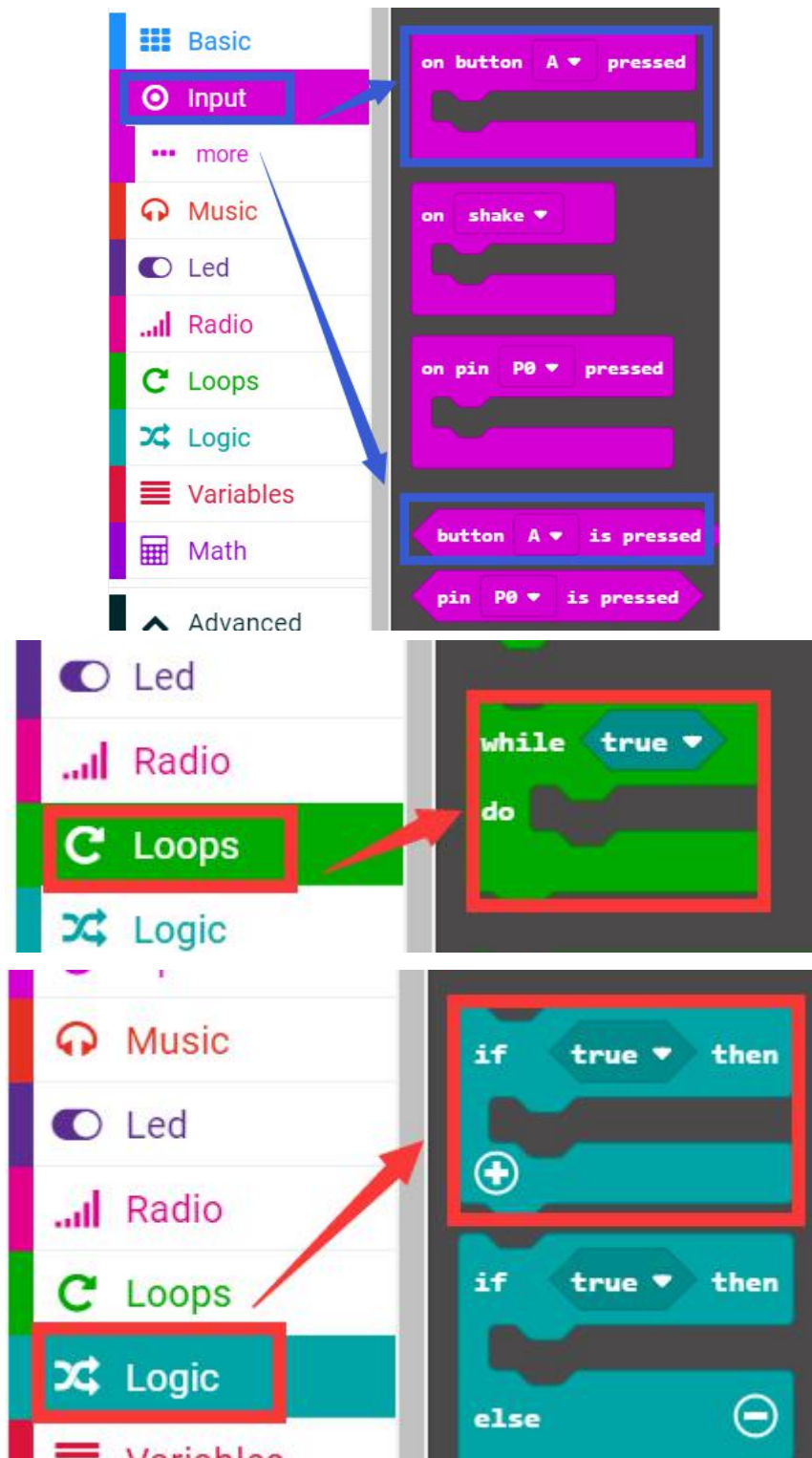
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface to program.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click **【New Project】** to program.

3.Looking for blocks

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

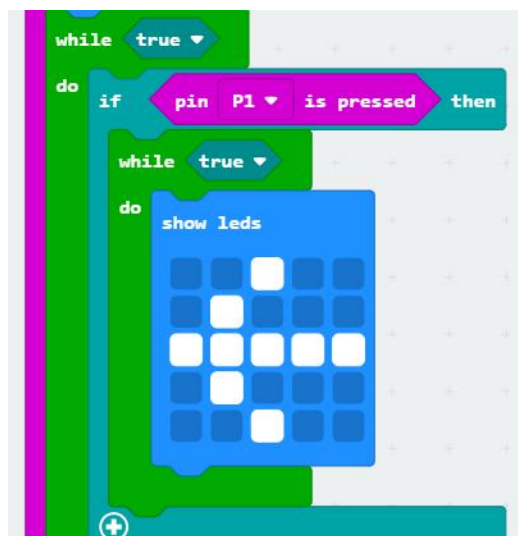
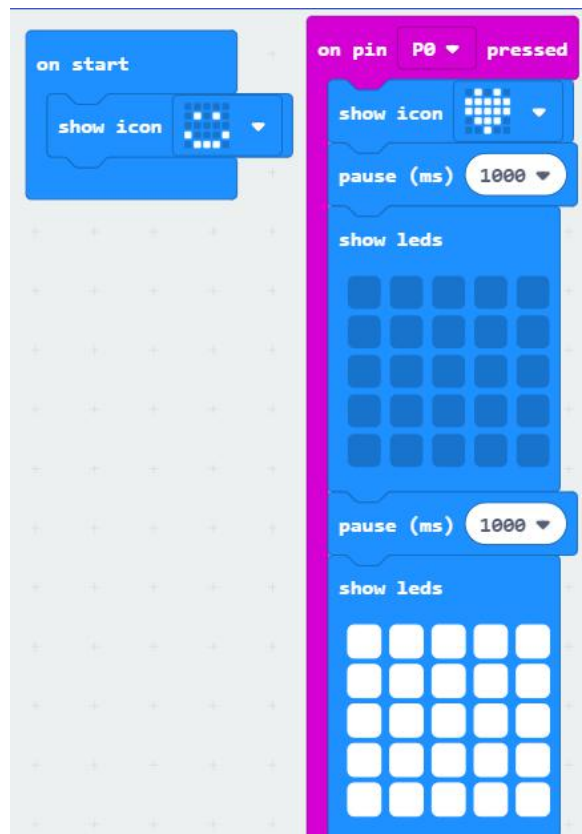


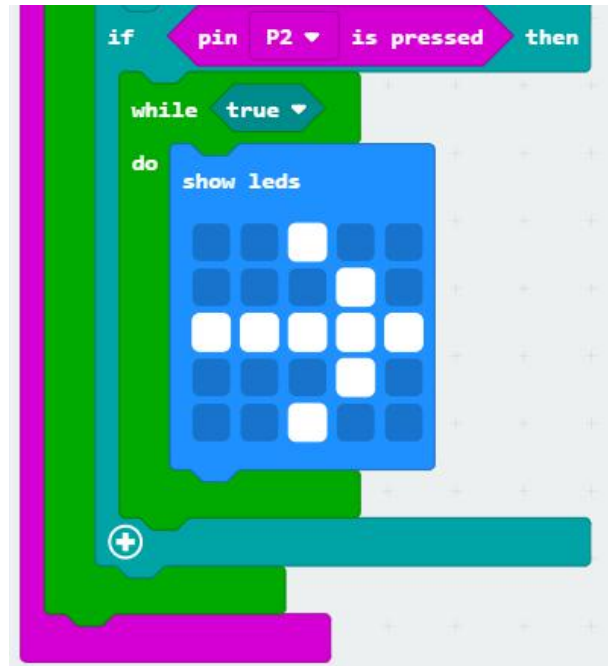




4. Combine building block

The summary program is shown below:





Note: we need to remove the jumper caps on P0 and FM, P1 and LED, P2 and PR pins on the basic expansion board.

You need to prepare 4 alligator clips.

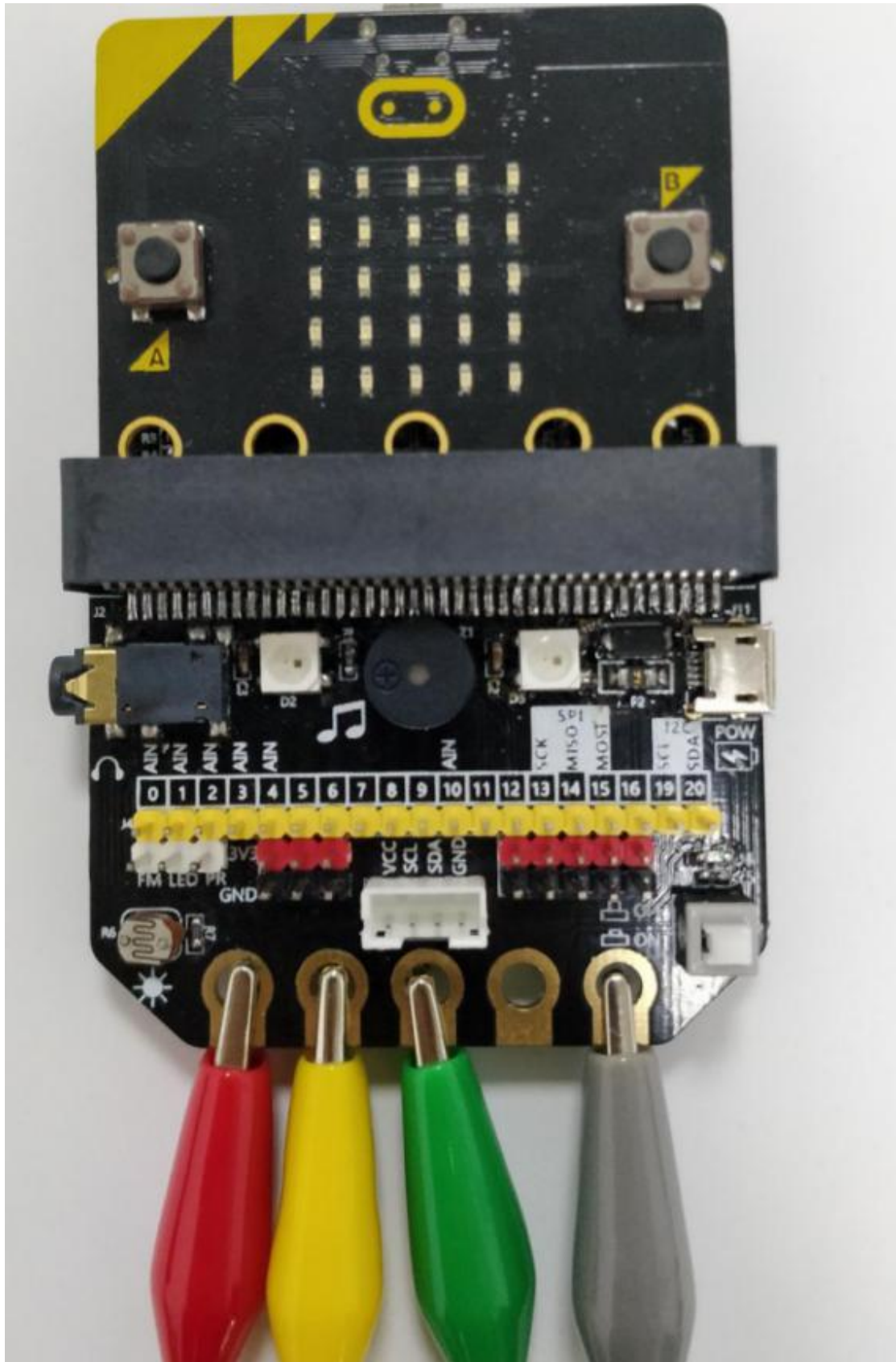
One end of the No.1 alligator clip is connected to the P0 interface of the basic expansion board, and the other end is connected to the tin foil.

One end of the No.2 alligator clip is connected to the P1 interface of the base expansion board, and the other end is connected. P1 tin foil;

one end of the No.3 alligator clip is connected to the P2 interface of the base expansion board, and the other end is connected to the P2 tin foil;

one end of the No.4 alligator clip is connected to the GND interface of the base expansion board, and the other end is connected to the GND tin foil. As shown below.

As shown below.



After the program is successfully downloaded, the micro:bit dot matrix will display a smile. When you touch P0 and GND, the micro:bit dot matrix will show love and start to prepare for answering.

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