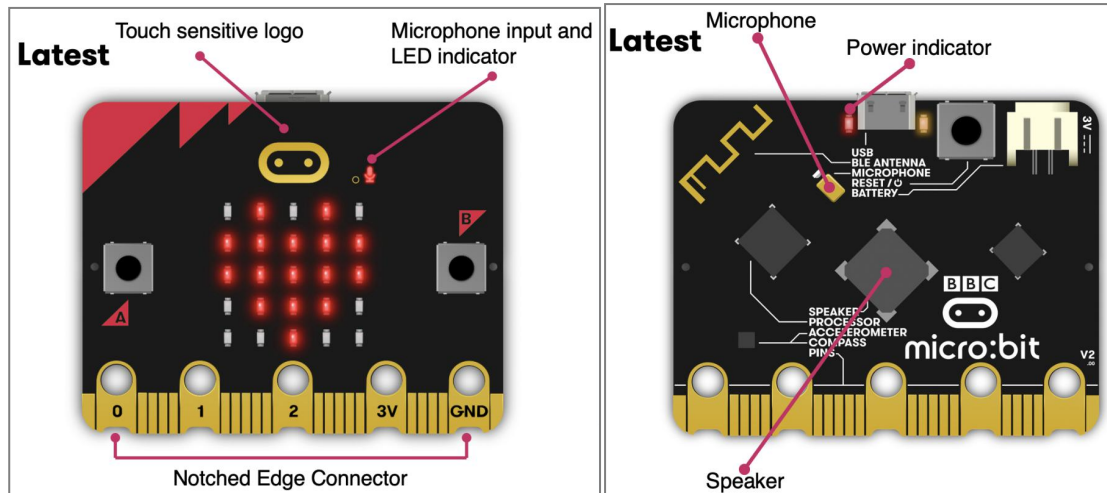# Changing face

1. Learning goals

In this lesson, we will learn how to switch the pattern on the dot matrix by touching the micro:bit logo.

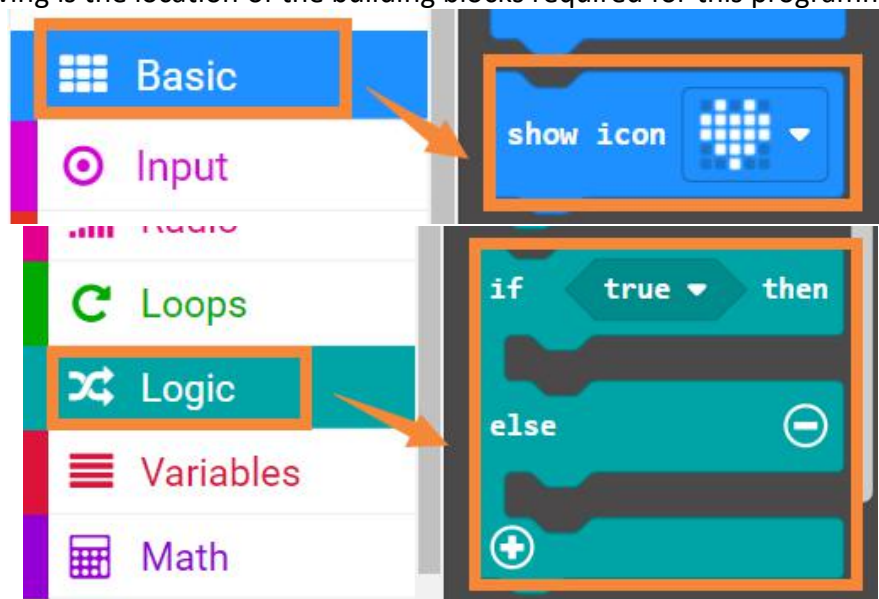## 2. Mode 1 online programming:

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 http://microbit.org/ in the USB flash drive to enter the programming interface to start program.
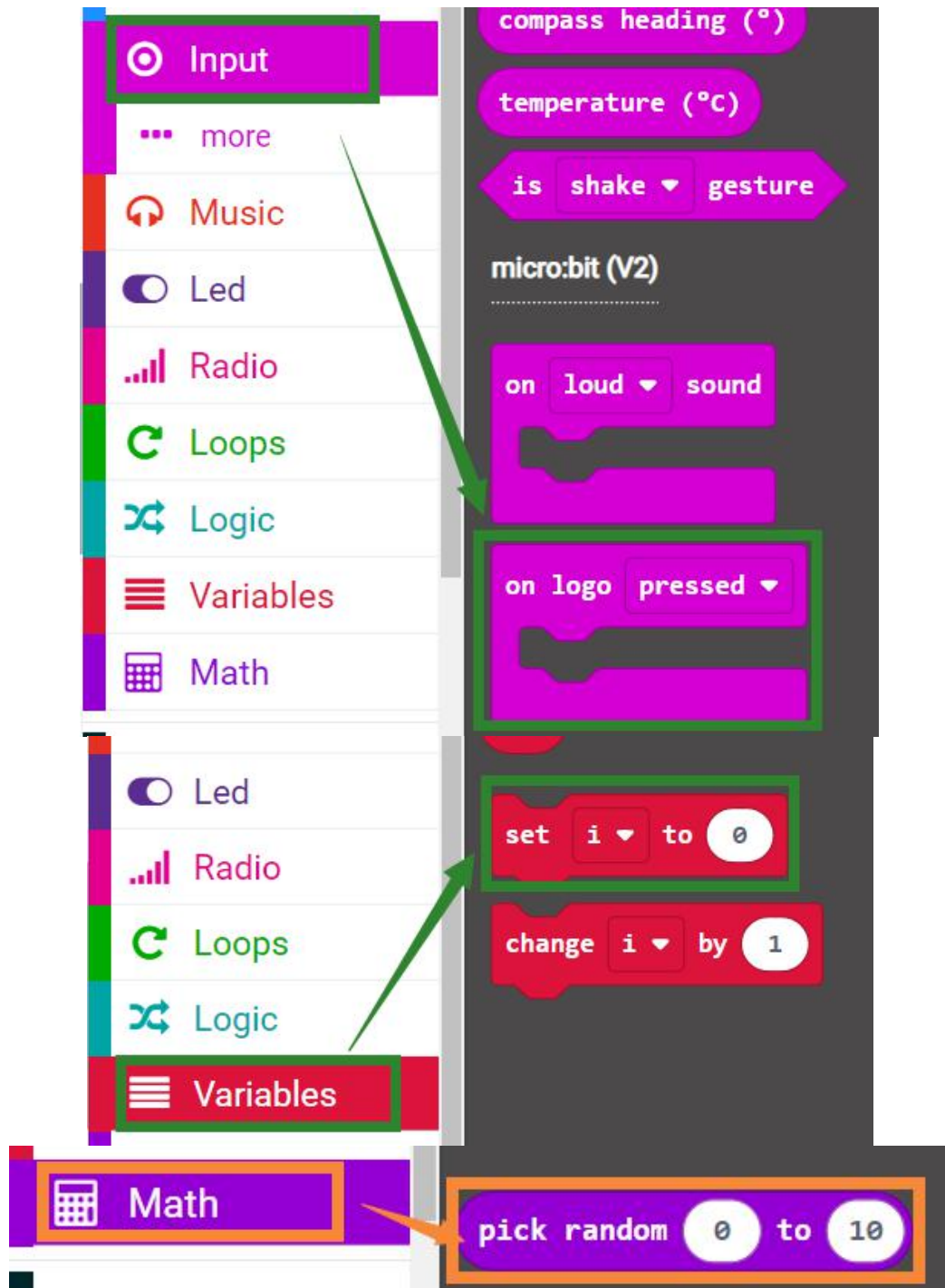
Mode 2 offline programming:

We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, you can start program.
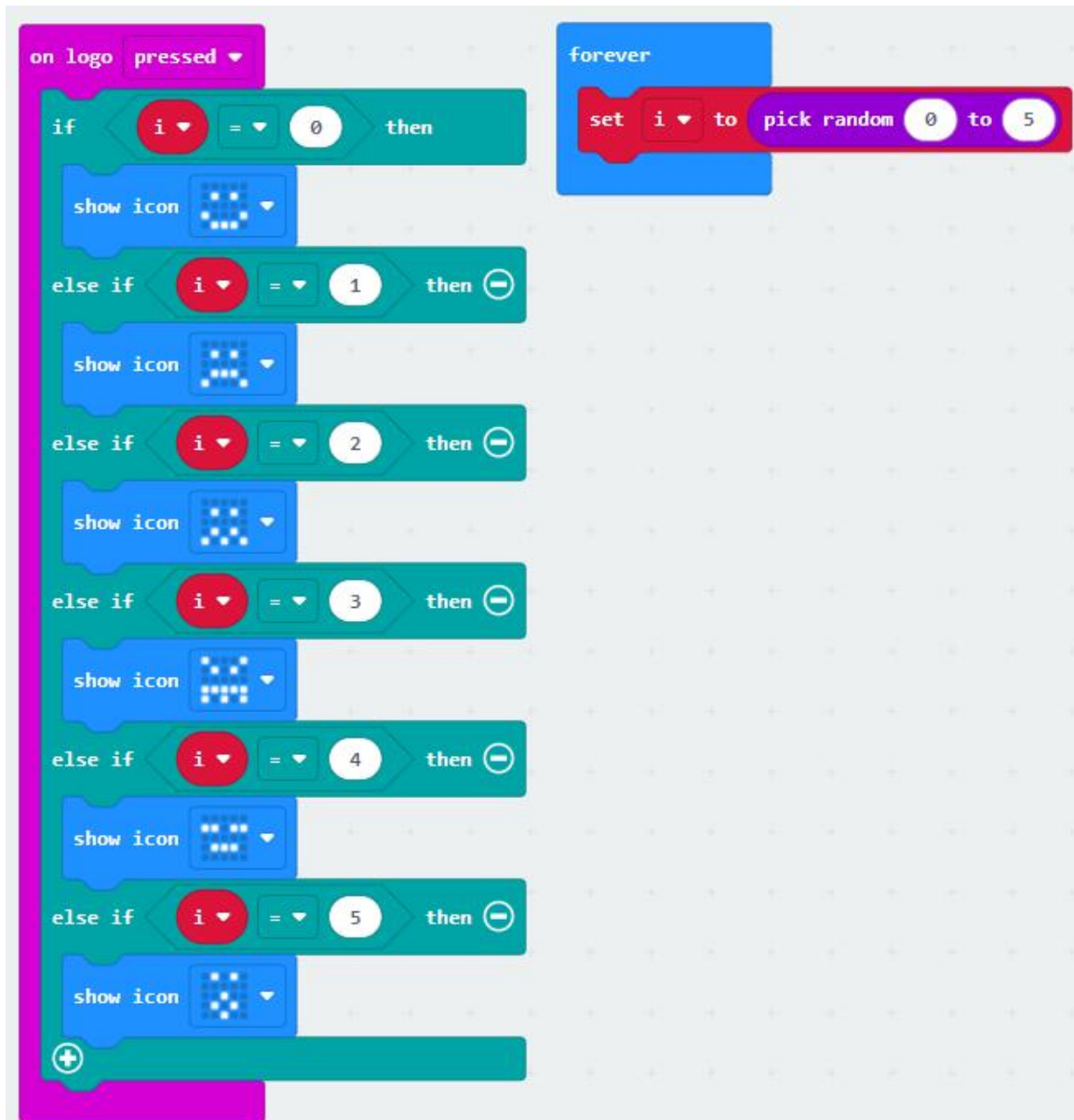
3.Looking for blocks

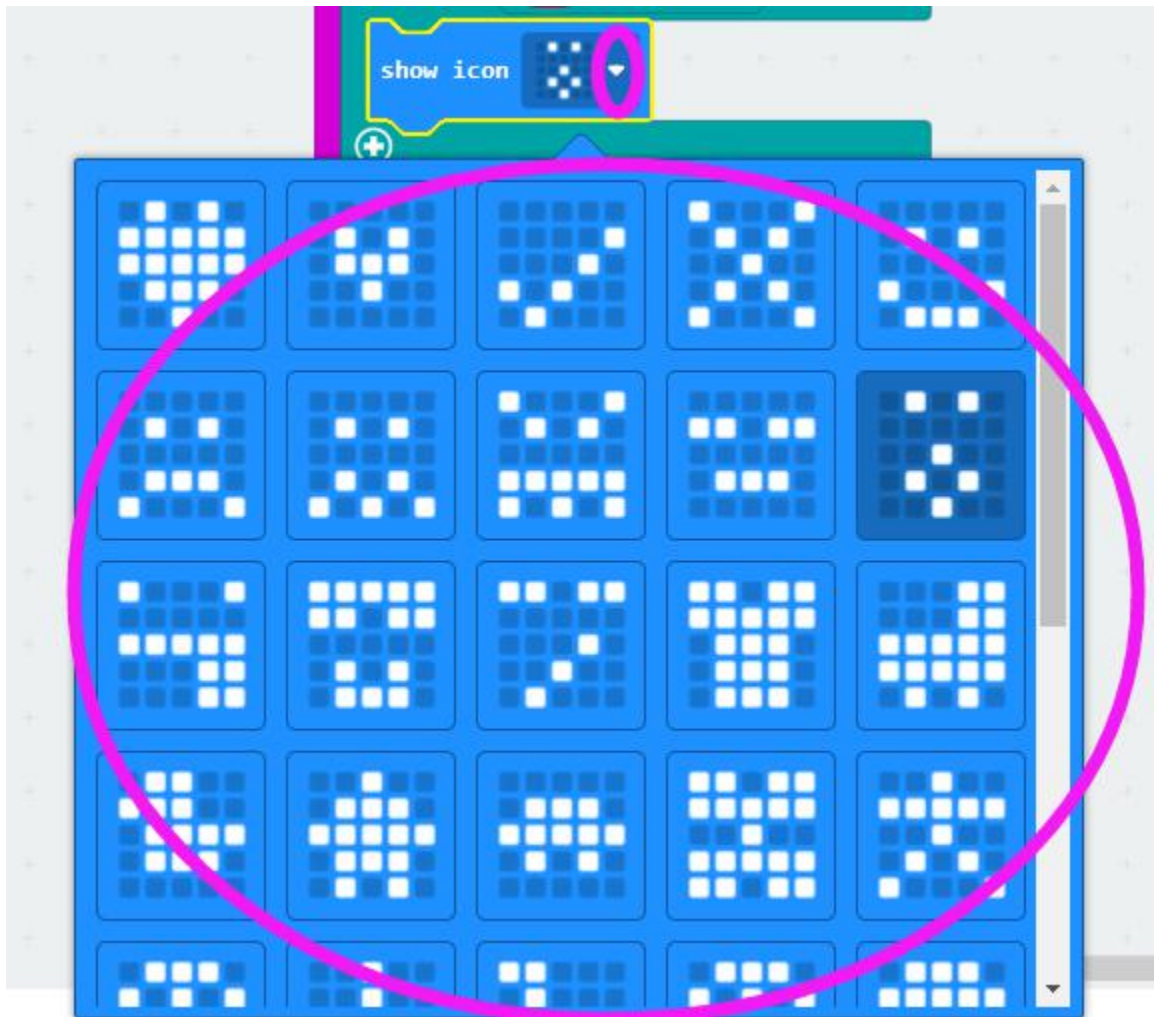The following is the location of the building blocks required for this programming.

4.Combine block

The summary program is shown below.

If you want to display other pattern, you can choose by yourself. As shown below.

5.Experimental phenomena

After connecting the computer to the micro:bit board via the micro USB data cable. Click download or save on the programming interface, and the program can be successfully downloaded to the Micro:bit board.

When you touch Logo on micro:bit board every time, the pattern will be displayed on dot matrix randomly.