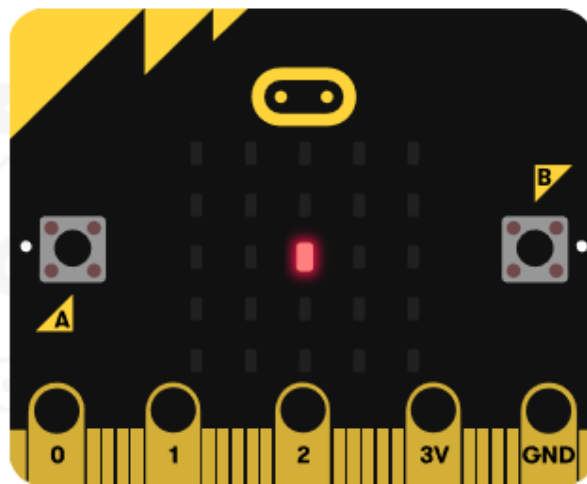
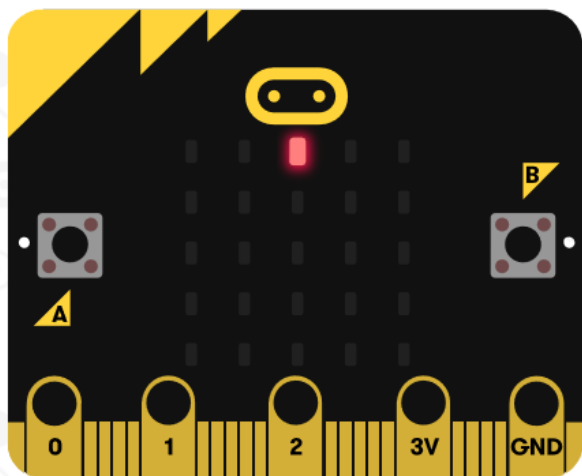


Section 4. Microbit horse race light

- 1、Achieve the goal
- 2、Preparation before class
- 3、Block programming

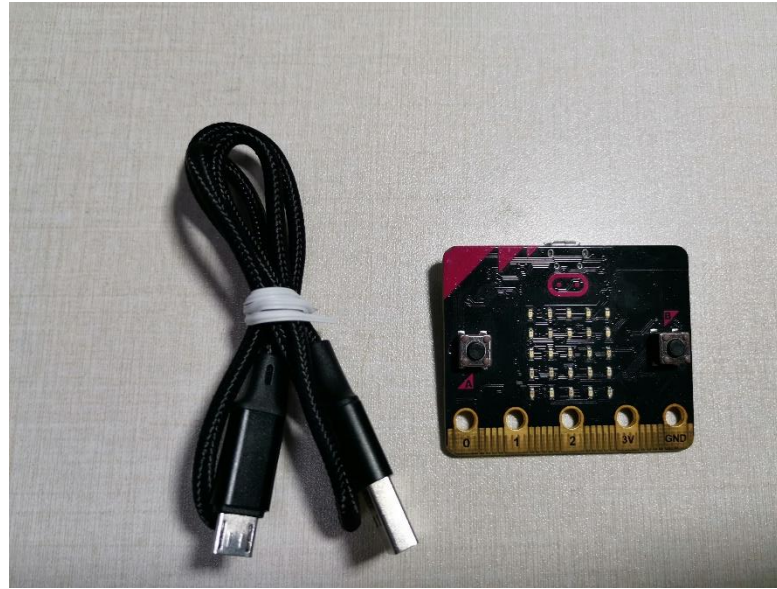
Section 4. Microbit horse race light



1、Achieve the goal

Let our microbit control panel LED lights go on and off one by one

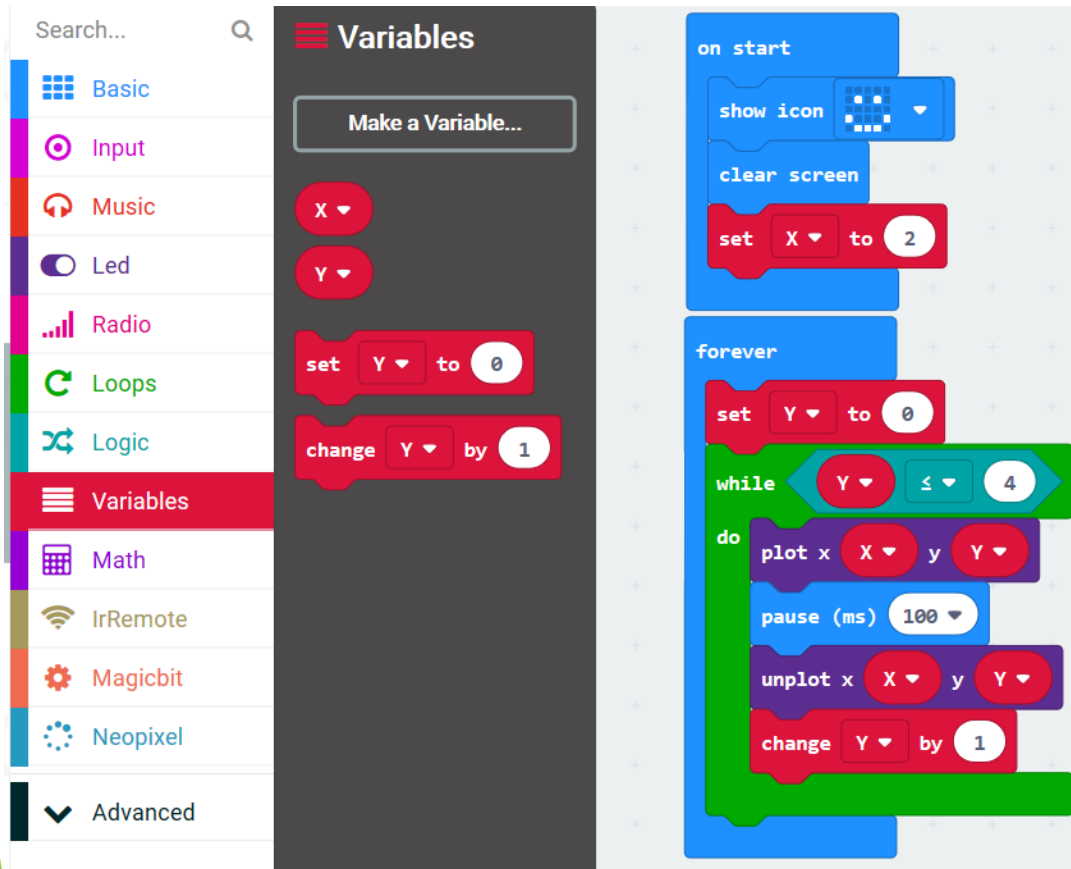
Section 4. Microbit horse race light



2、Preparation before class

prepare a microbit motherboard, a USB cable, and a computer

3. Block programming

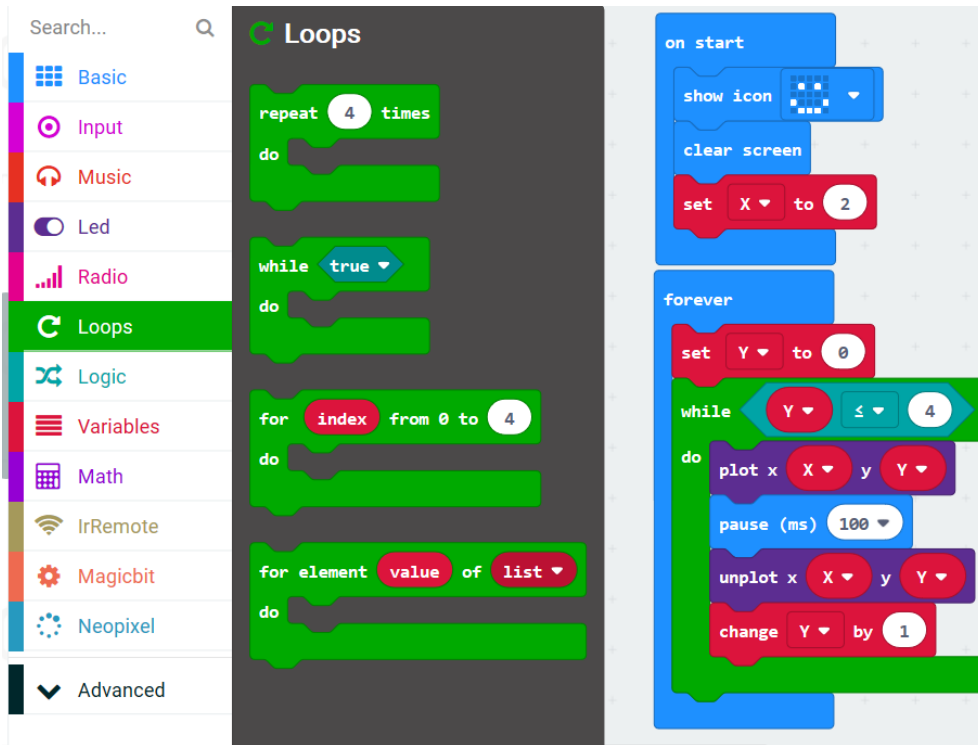


1. What are variables?

Variables are set to store certain values.

2. In the variable package, select the setting variable and enter a variable name. For example, create two variables

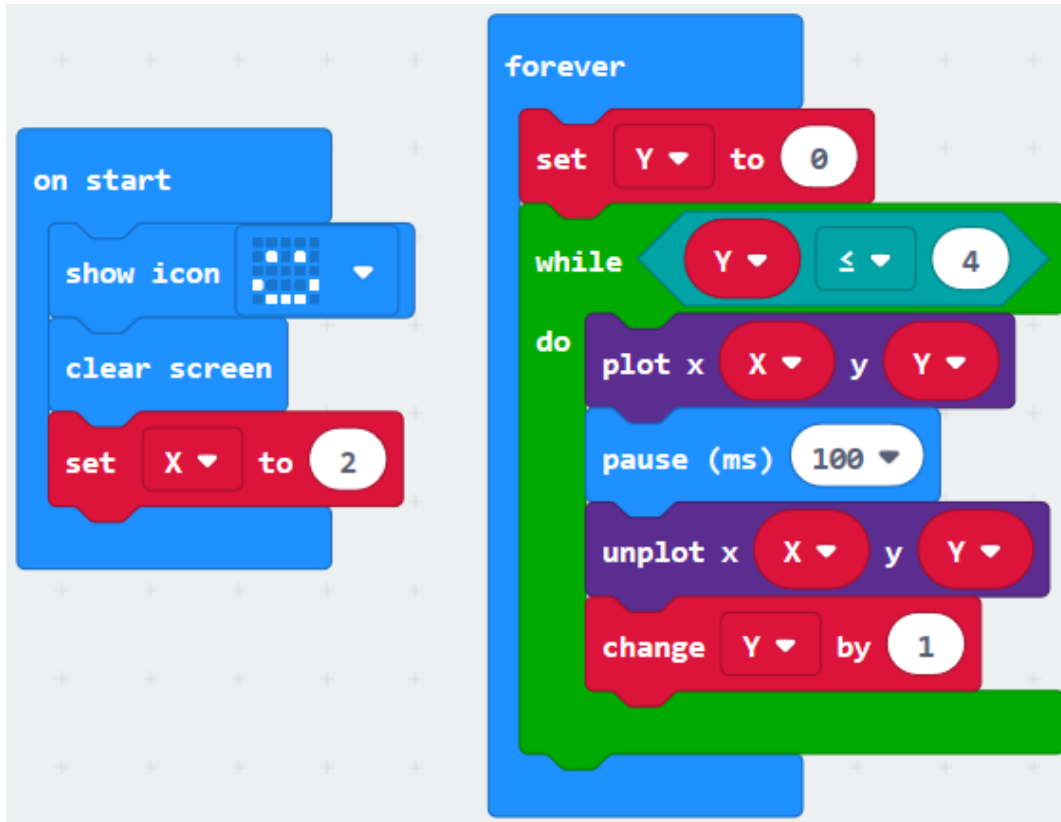
3、Block programming



1. What are recycling blocks?

The cycle block is used to judge whether a conditional program block is correct. If it is correct, the cycle block in the wooden box is executed. After execution, the cycle block will enter into the judgment again. For example, if Y is less than 4, the LED lights at x and Y positions will be lit by drawing.

3. Block programming

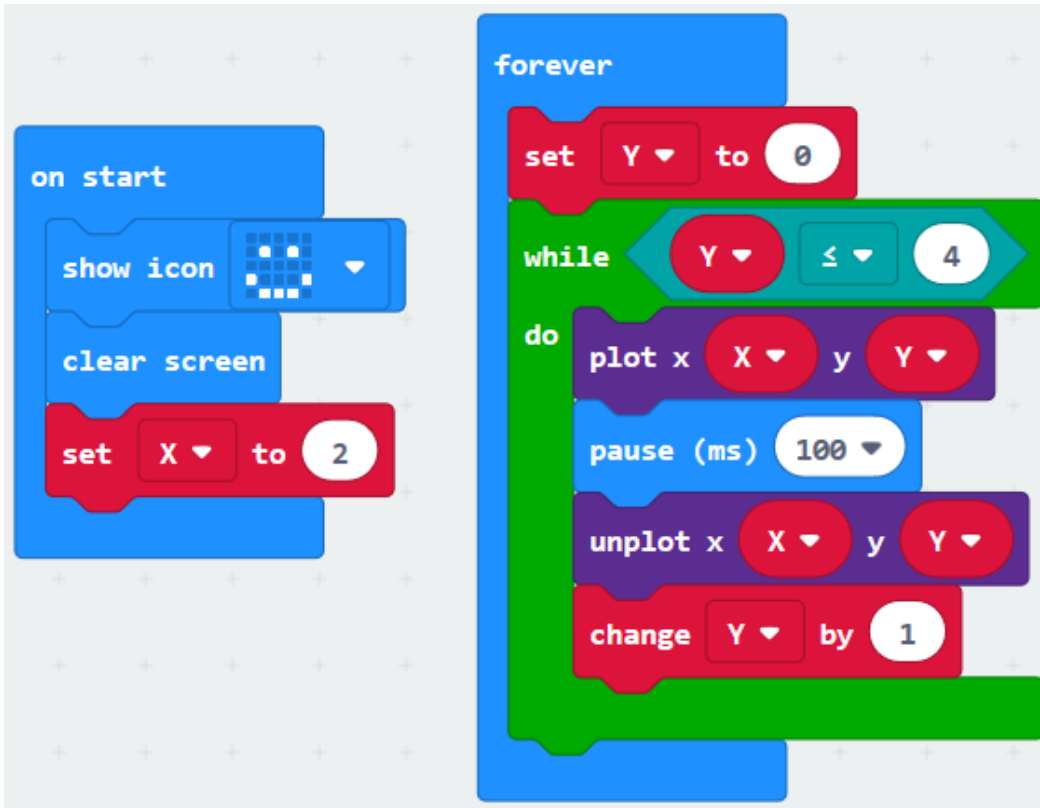


3. When the machine is turned on, a smiley face will be displayed first, then the screen will be cleared and the variable X will be '2'.

4. Variables X and Y are used to control the range of the cycle and to light the LED light at the corresponding position. The values of variables x and y can be changed by using the red program blocks in the variable package

Section 4. Microbit horse race light

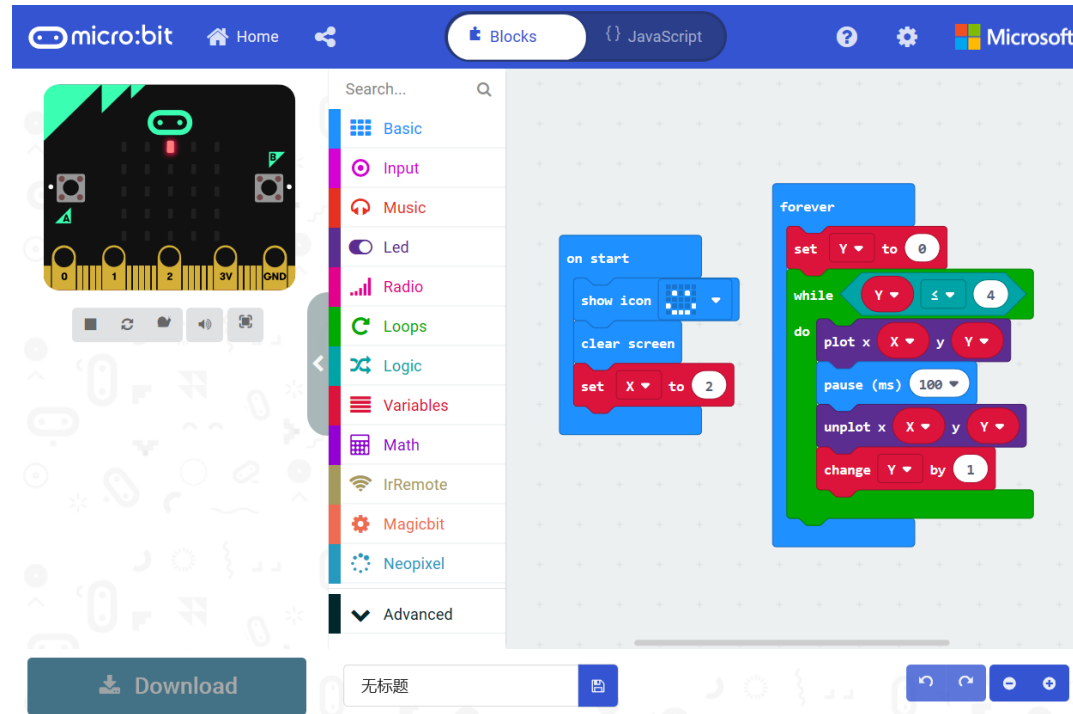
3,Block programming



5. The LED lights can be turned on and off in order by using a green cyclic programming block, and then using purple drawing block and undrawing block

6. X and Y represent the positions of LED lights. Since the LED lights need to be lit one by one, red blocks are needed to change the values of X and Y at the range of '1'

Section 4. Microbit horse race light




Download
experience

1. Click "download" to download the program to microbit, and you can see the results of your programming

Section 4. Microbit horse race light

A green speech bubble with a yellow border and a yellow tail pointing towards the bottom right. It contains the text "Did your program work ??".

Did your
program
work ??

A green speech bubble with a yellow border and a yellow tail pointing towards the bottom left. It contains the text "Can you make the LED light turn on left and right?? Use your imagination and start creating!".

Can you make
the LED light
turn on left and
right?? Use your
imagination
and start
creating!