Microbit control LED light module flash

1、Achieve the goal

2、Preparation before class

3、Wiring

4、Block programming

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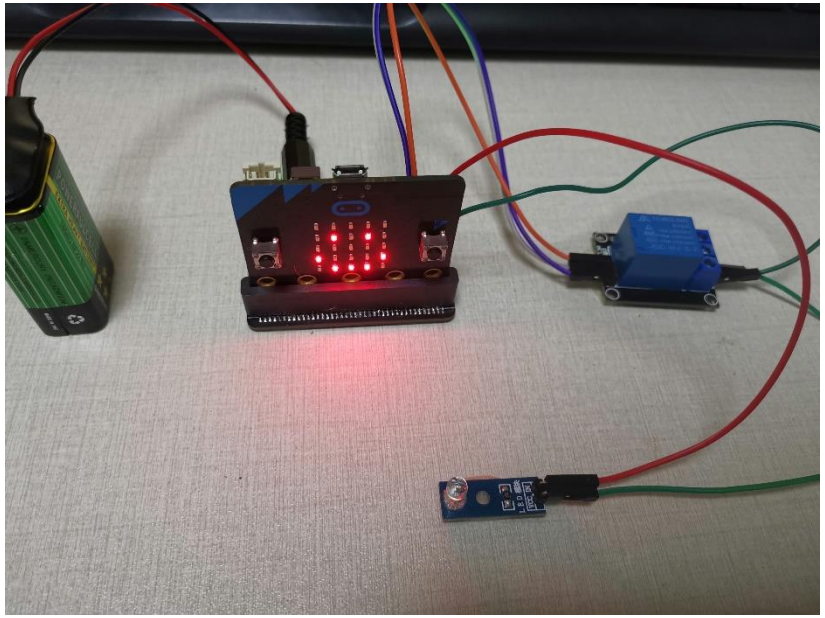

1、Achieve the goal

When the circuit is connected, the relay will be opened and closed at an interval of 1S. Meanwhile, the relay, as a switch, will also control the LED lights to be opened and closed at an interval of 1S.

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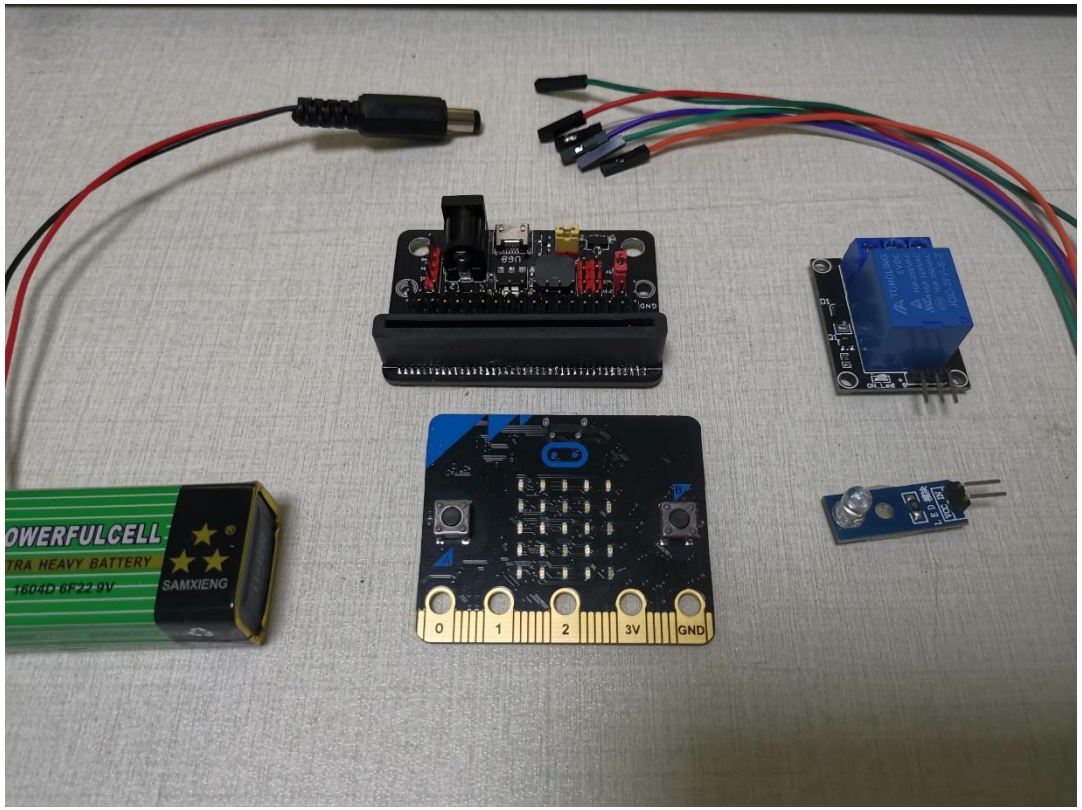

2、Preparation before class

Prepare microbit mainboard, USB cable, battery, LED module, relay module, expansion board, dupont line.

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3、Wiring

Relay S pin connected with extension plate P2, + pin connected with extension plate VCC, -pin connected with extension plate GND, NO pin connected with VCC;

The LED lamp module VCC is connected to the COM pin of the relay, and the IN pin is connected to the GND pin of the extension plate

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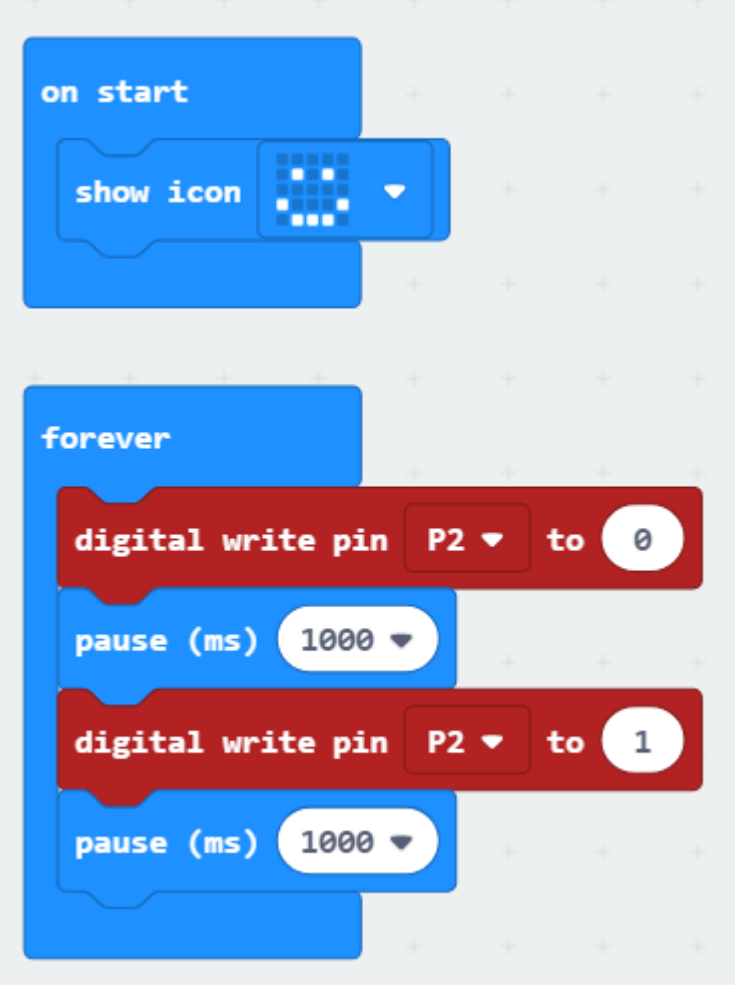

4、Block programming

1. When the machine is turned on, the microbit screen displays a pattern of a smiley face and then enters an infinite loop
2. In the infinite loop, the first block is to set the expansion board P2 pin to low level 0 and pause 1s, and then set it to high level 1 and pause 1s, so that the relay will open and close the switch at an interval of 1s.

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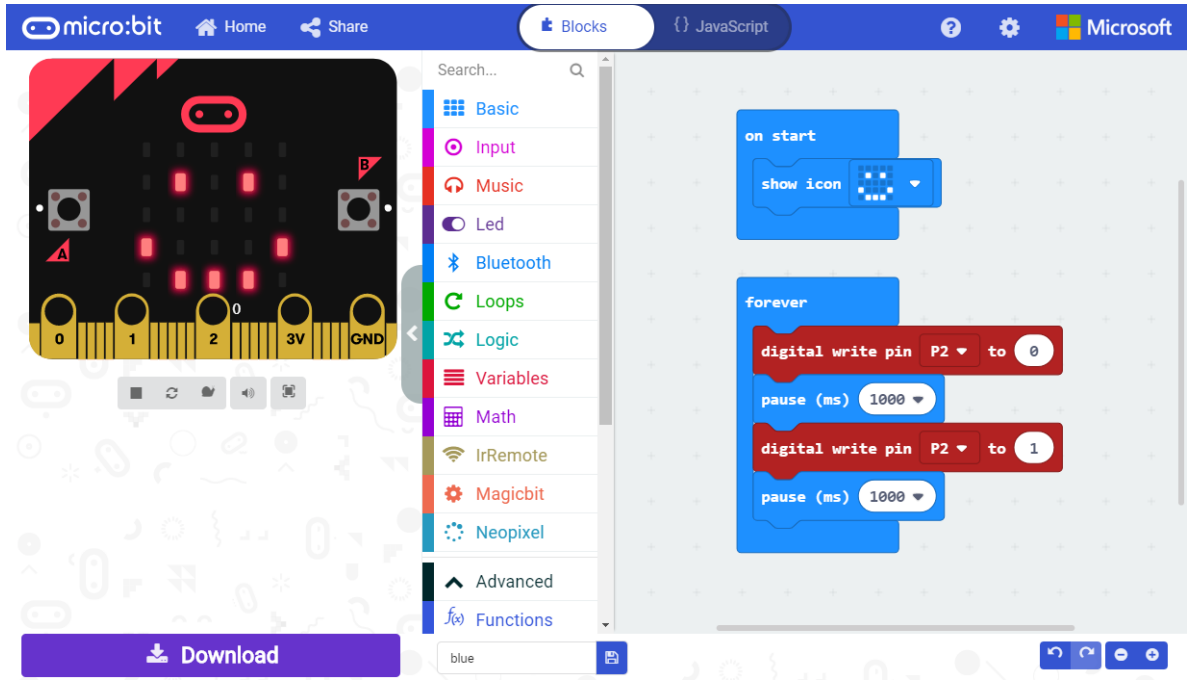

5、Download experience

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