microbit-Waterfall light

1、Achieve the goal

2、Preparation before class

3、Wiring

4、Block progamming

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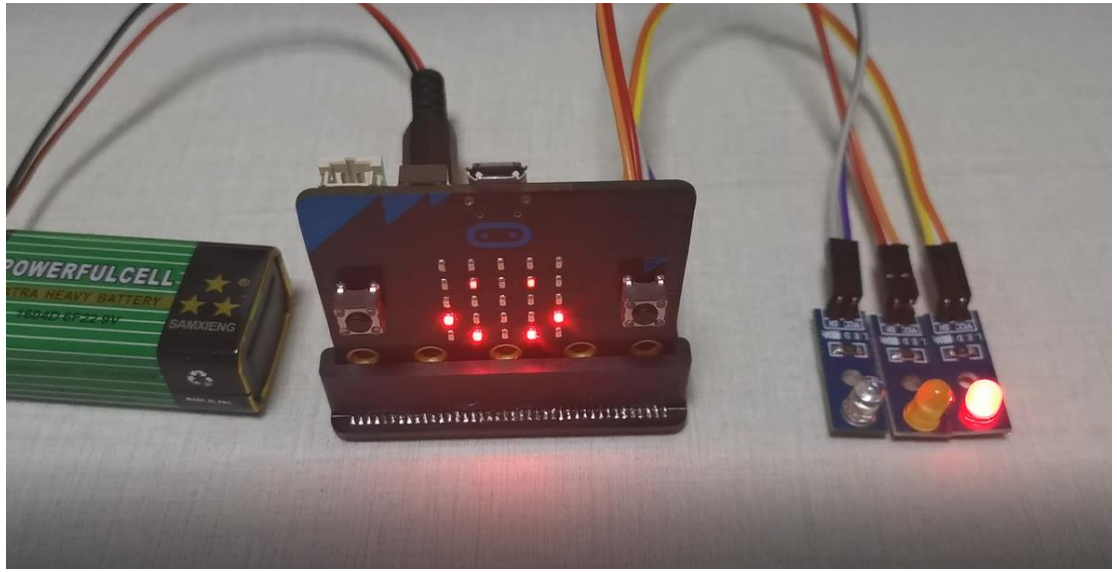

1、Achieve the goal

When the three LED modules are connected to the microbit expansion board, the three LED lights light up like running water

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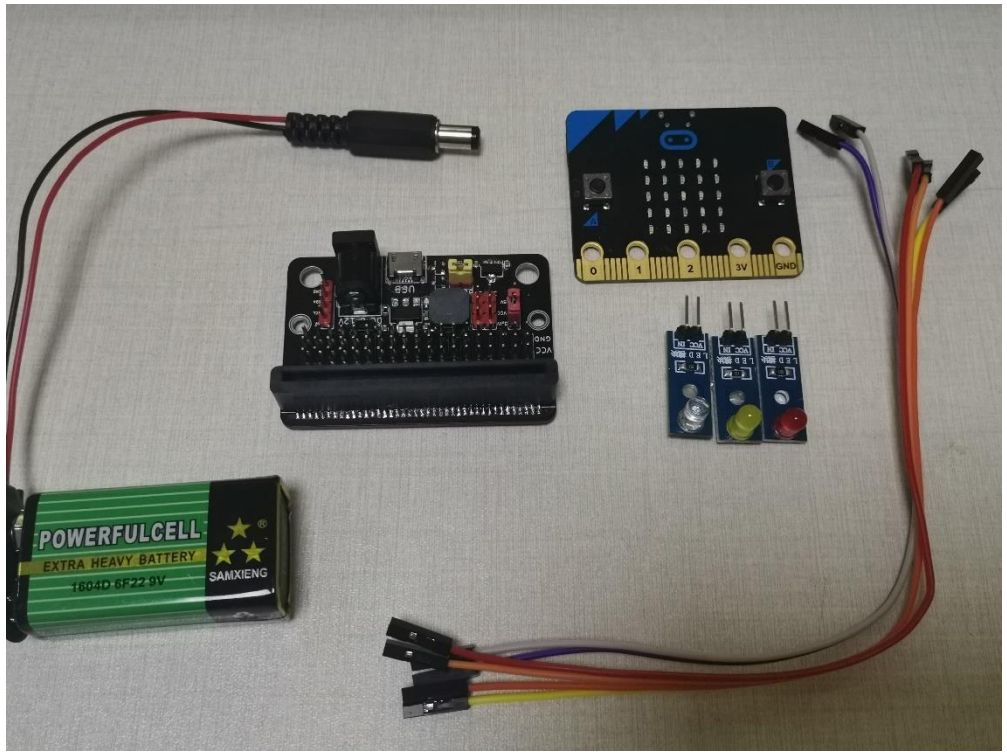
2、Preparation before class



Prepare microbit mainboard, USB cable, battery, LED lamp module, dupont cable。

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3、Wiring

The LED lamp module's VCC pin is connected via dupont wire to the red VCC interface on the extension board; The IN pins of the LED lamp module are connected to the blue PIN pins P0, P1 and P2 of the extension board respectively

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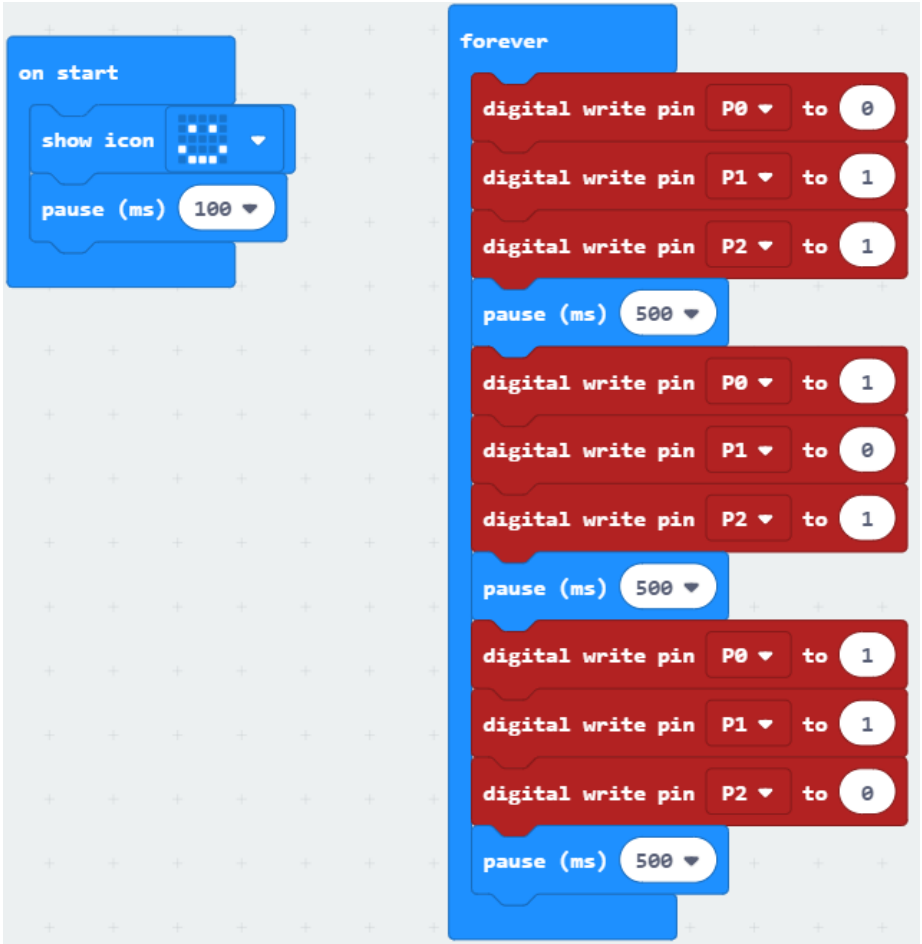

4、Block programming

1. When starting up, display a smiling face icon, delay 100ms, and then enter infinite loop
2. IN the wireless loop, first set the LED lamp IN connected to P0 pin as low level '0' to light on, and the LED lamp IN P1 and P2 pin as' 1 'to turn off. The delay is 500ms.

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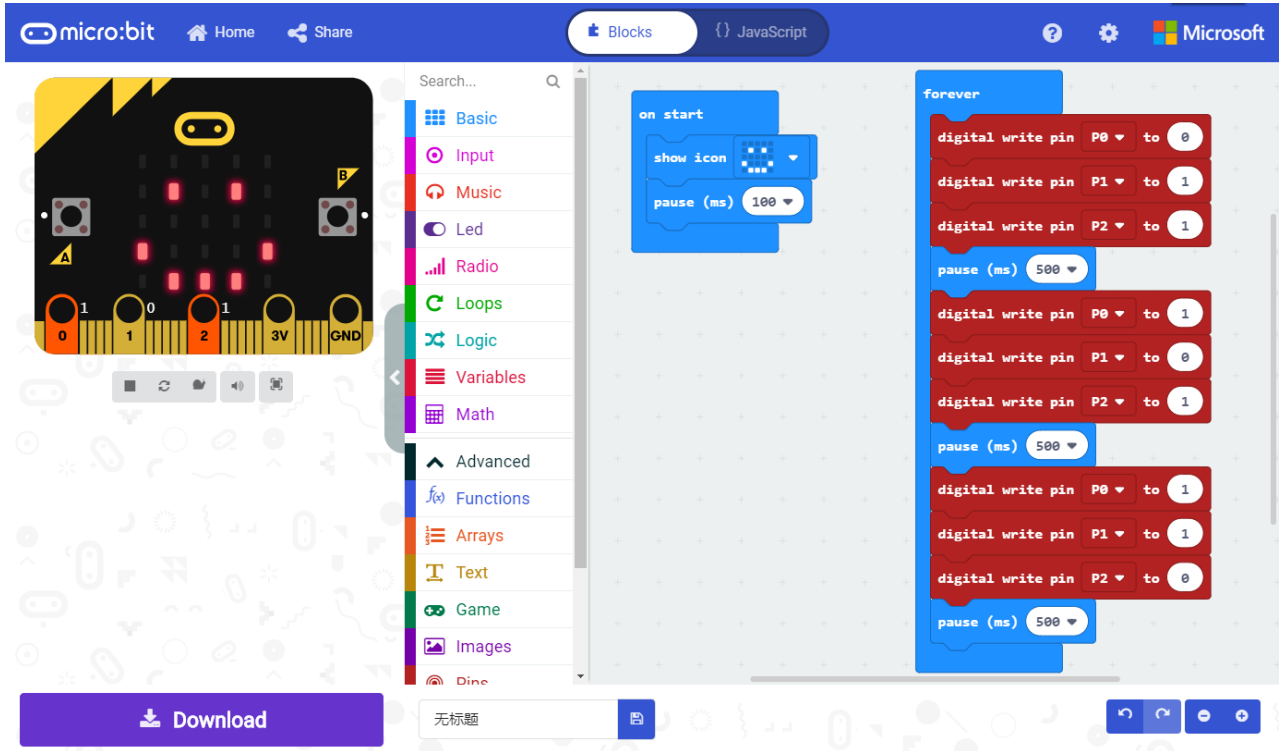

5、Download experience

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