Electronic organ

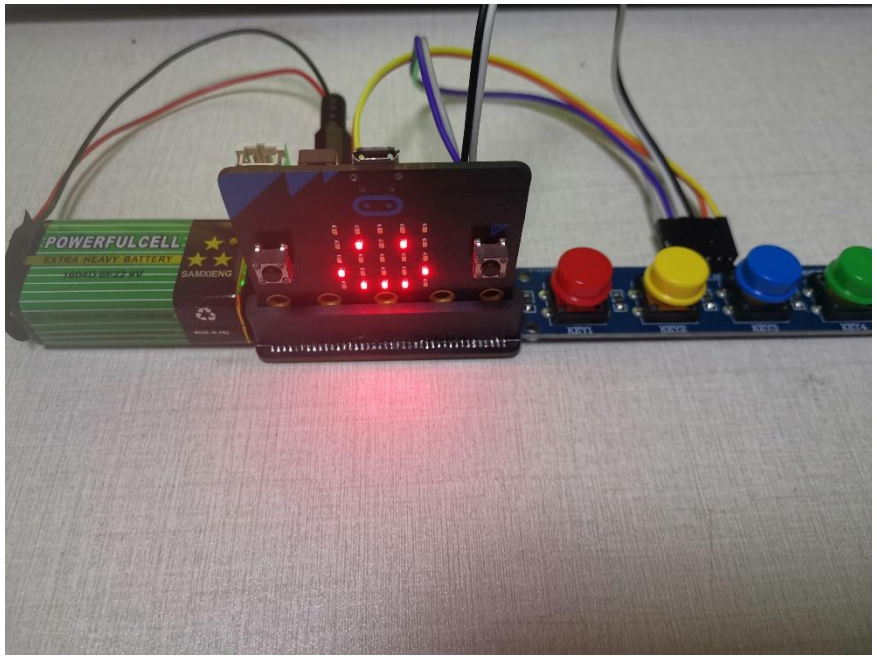
1、Achieve the goal

2、Preparation before class

3、Wiring

4、Block programming

Electronic organ

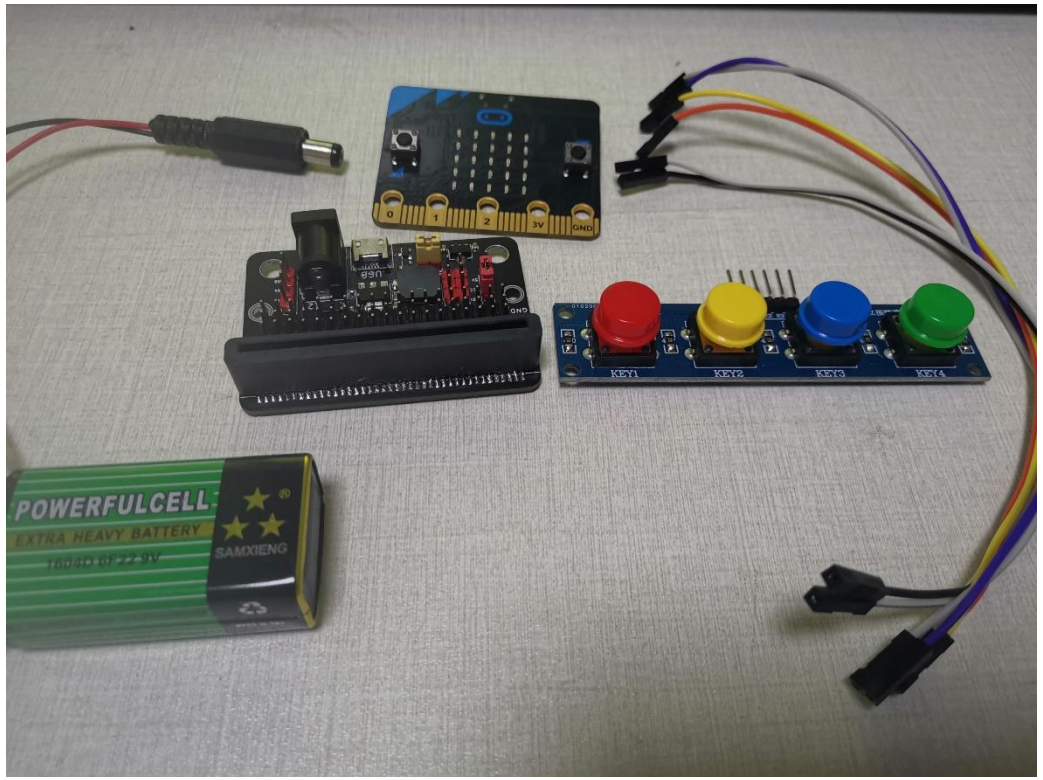


1、Achieve the goal

When different buttons are pressed, the extension board's buzzer makes different sounds, turning it into an electronic organ

Electronic organ

2、Preparation before class



Prepare microbit motherboard, USB cable, battery, button module, dupont cable, expansion board.

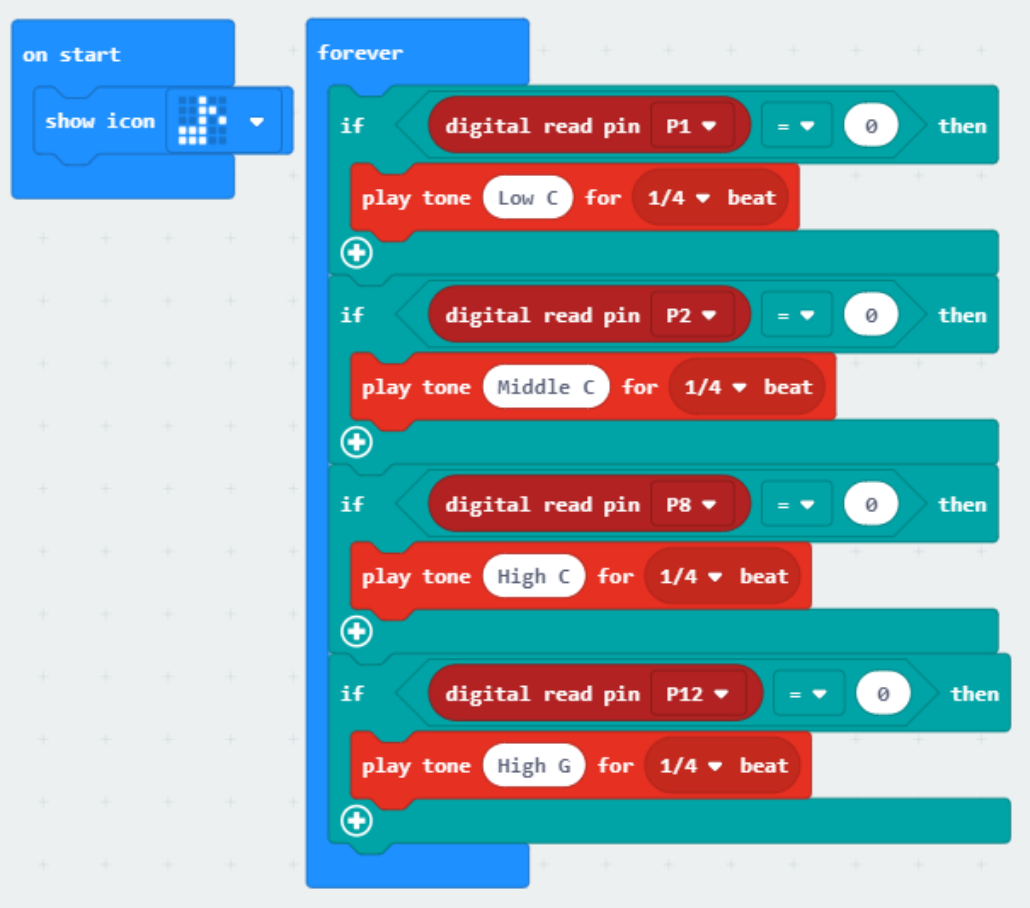
Electronic organ

3、Wiring

The OUT pins of the buttons are connected to the expansion board P1, P2, P8 and P12 respectively. The VCC pin of the button is connected to the red VCC pin of the extension board, and the GND pin of the button is connected to the black pin of the extension board

Electronic organ

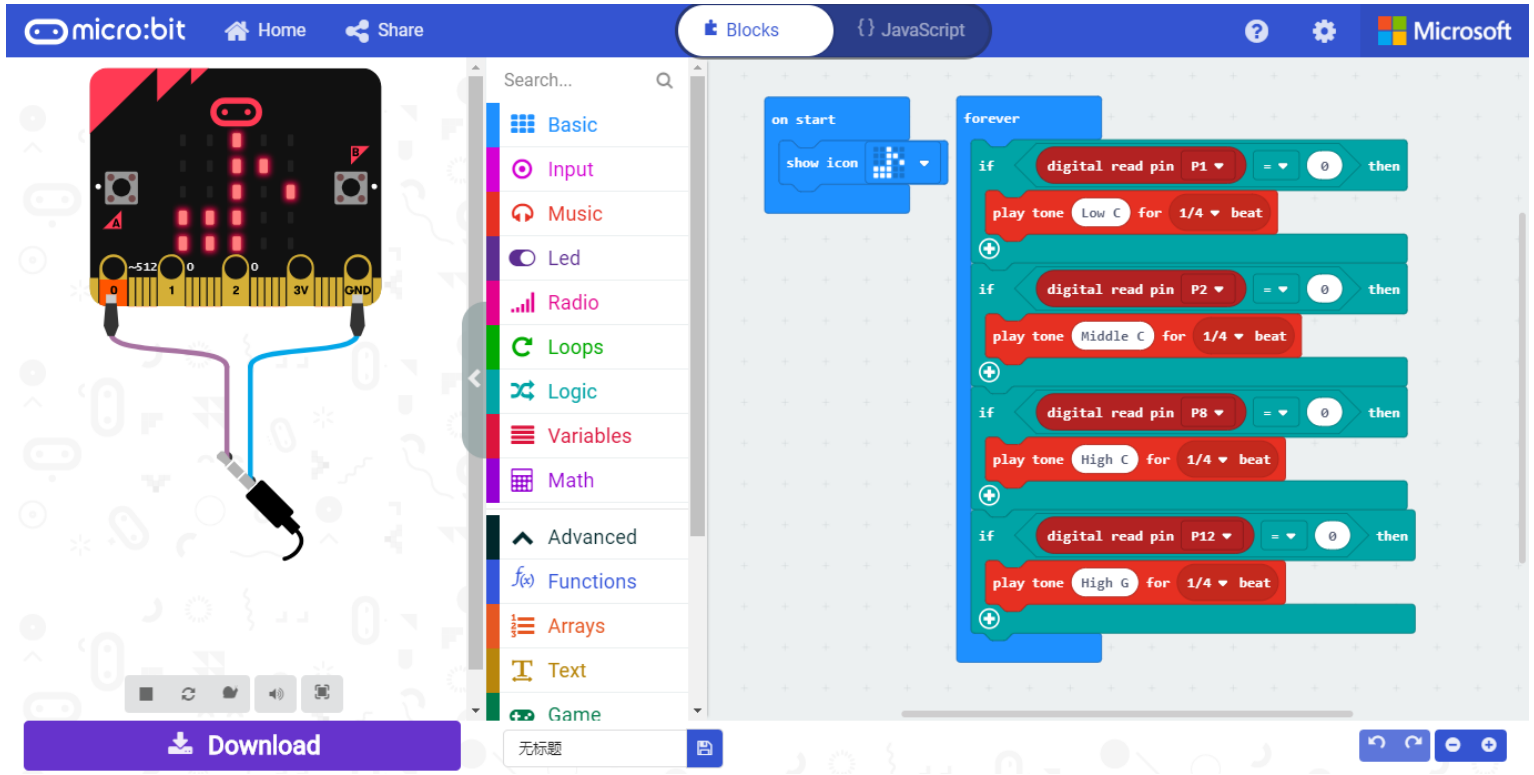
4、Block programming



1, when the boot, display a music icon, and then start infinite loop

2. In the wireless loop, judge whether the button connected to pin P1 has been pressed or not. If pressed, play the low C tone 1/4 beat; If the button connected to pin P2 is pressed, play the C tone 1/4 beat...

Electronic organ



5、Download experience

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