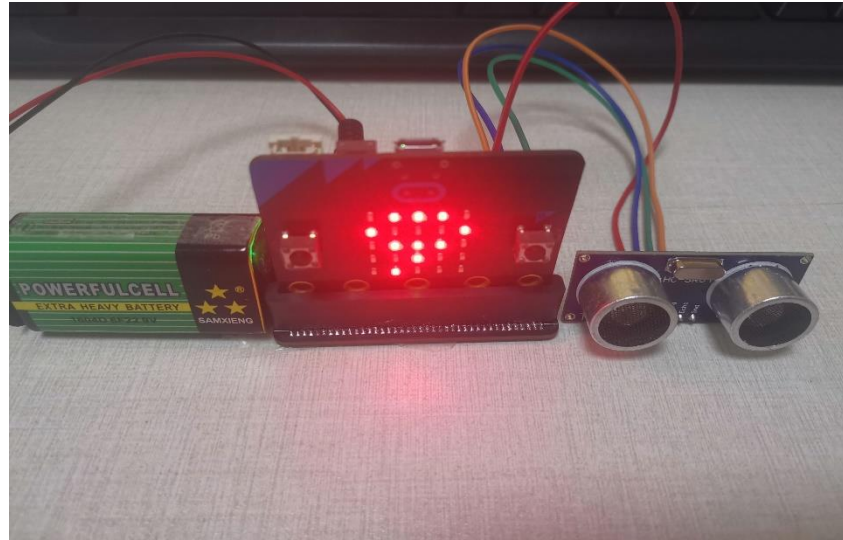# Microbit displays the ultrasonic measurement distance

1、 Achieve the goal

2、 Preparation before class

3、 Wiring

4、 Block programming

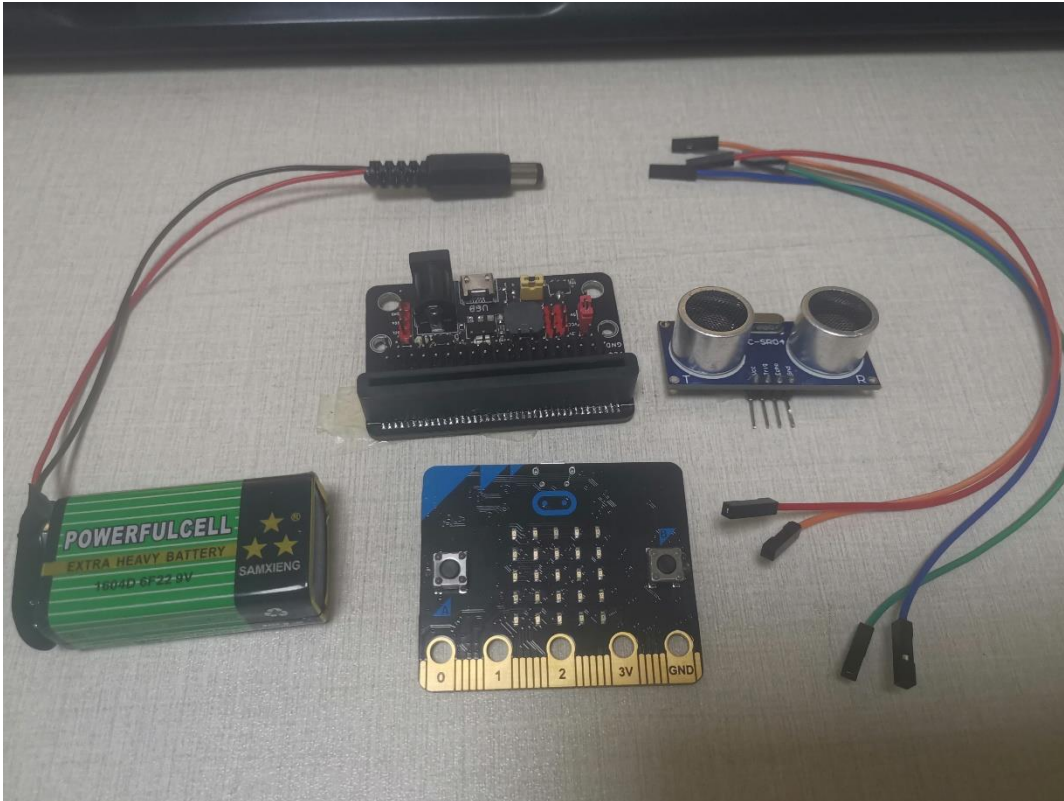# Microbit displays the ultrasonic measurement distance

1、Achieve the goal

The microbit screen displays the forward distance read by the ultrasound, and the value of the microbit screen increases or decreases as the current object moves

Microbit displays the ultrasonic measurement distance

2、 Preparation before class

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

Microbit displays the ultrasonic measurement distance

3、 Wiring

The VCC pin of the ultrasonic module is connected to the 5V pin of the expansion plate, the GND pin is connected to the GND pin of the expansion plate, the TRIG pin is connected to the P2 pin of the expansion plate, and the ECHO is connected to the P1 pin of the expansion plate
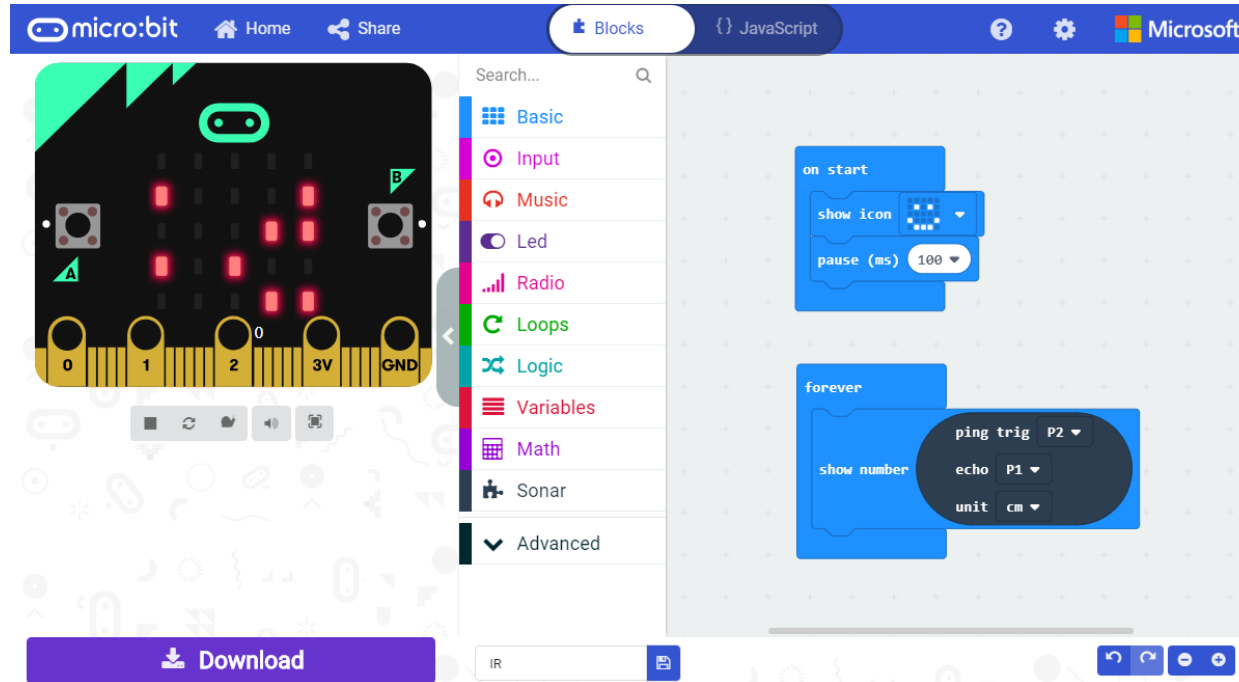
Microbit displays the ultrasonic measurement distance

4、Block programming

1. When the machine is turned on, the microbit screen displays a smiley face and pauses for 100ms

2. In the infinite loop, the distance measured by ultrasonic wave is displayed. The selection symbol after trig represents the extension plate pin connected by the ultrasonic trig pin, echo
Similarly, the selection symbol after unit can select the unit of output data

Microbit displays the ultrasonic measurement distance

5、 Download experience

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