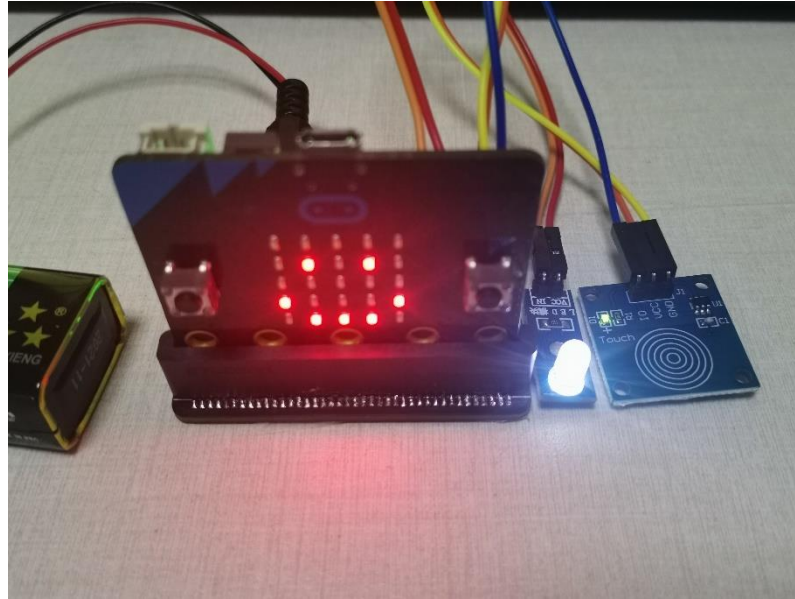


## The touch switch control the LED light

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

# The touch switch control the LED light



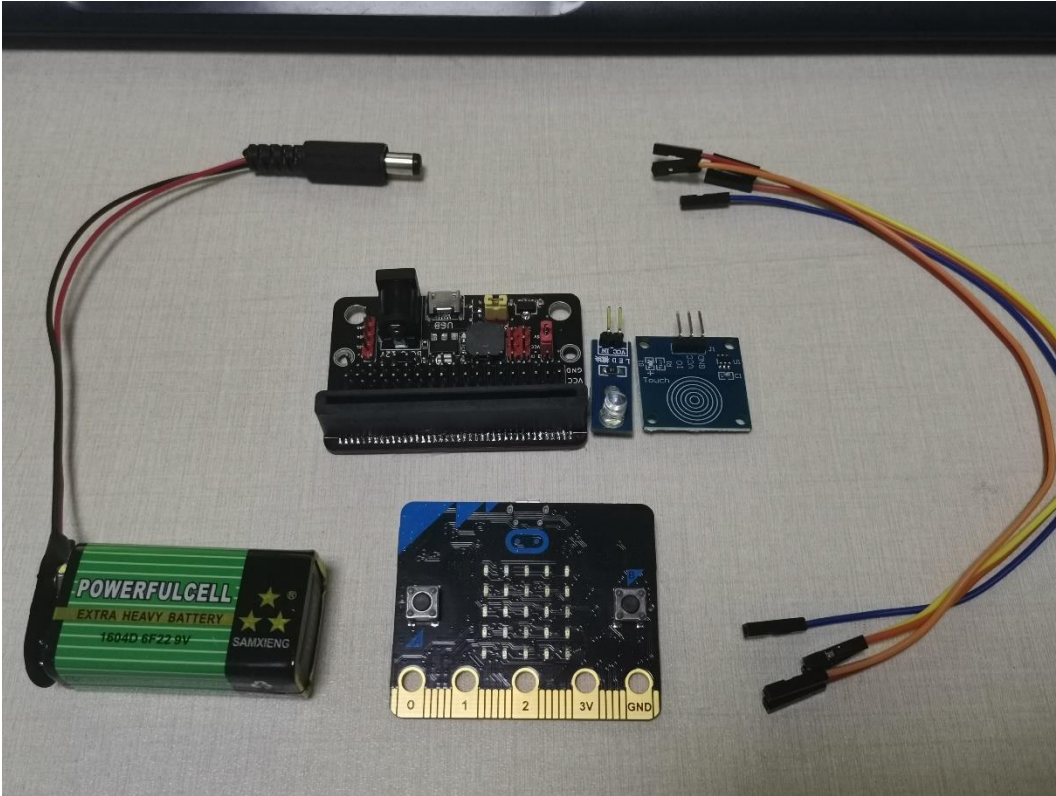
## 1、Achieve the goal

When the LED lamp module and touch switch module are connected with the microbit extension board, the touch touch switch LED lamp module will be lit, and the touch touch switch LED lamp module will be off.

# The touch switch control the LED light

## 2、Preparation before class

Prepare microbit mainboard, USB cable, battery, LED lamp module, touch switch module, expansion board, dupont line.



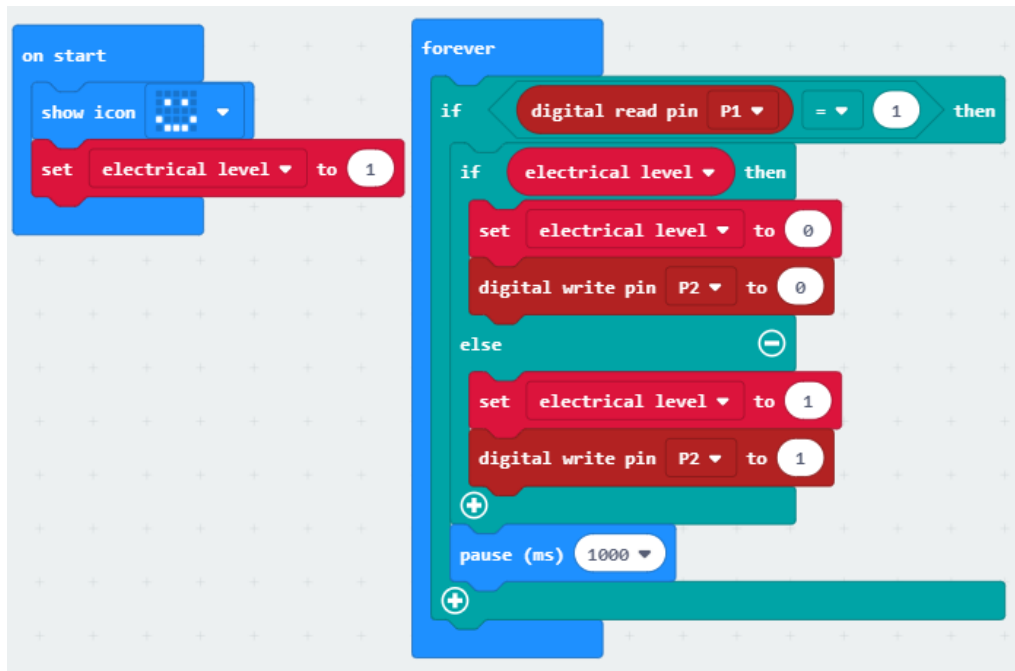
# The touch switch control the LED light

## 3、Wiring

The VCC pin of the touch switch is connected to the expansion board VCC, GND pin is connected to the expansion board GND, and IO pin is connected to the expansion board P1. The LED lamp module VCC pin is connected to the expansion board VCC, and the IN pin is connected to the expansion board P2

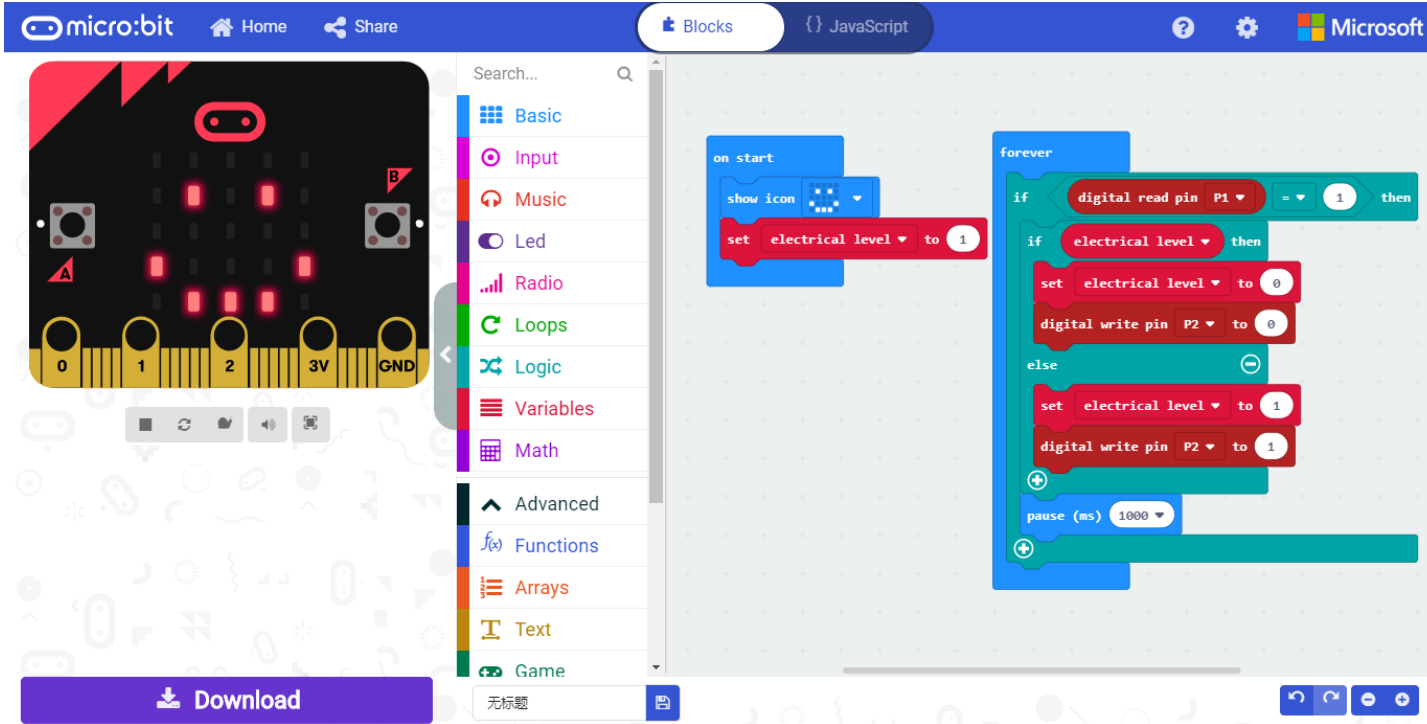
# The touch switch control the LED light

## 4、Block programming



1. When it is turned on, the screen will display a smiley face pattern, set the variable value to 1, and then enter an infinite loop
2. In the infinite loop, judge whether the touch switch has been touched or not. If it is touched, judge the value of the variable, so as to set the state of the LED lamp and turn it off or on

# The touch switch control the LED light



## 5、Download experience

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