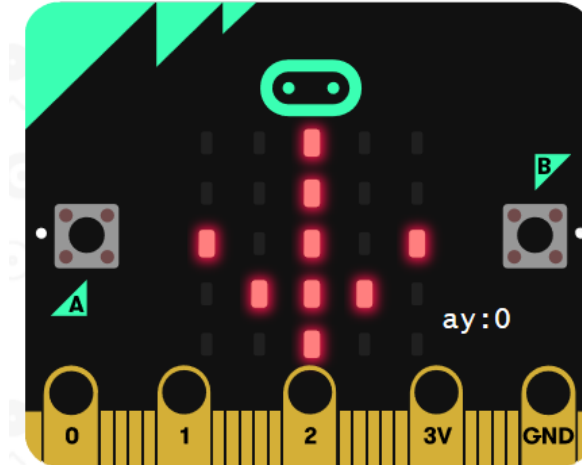
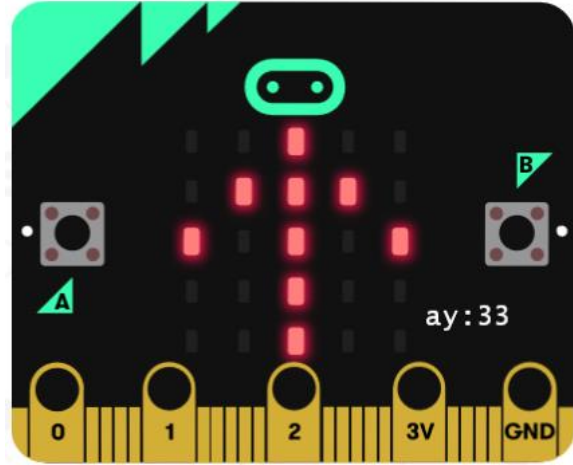


Section 12. accelerometer demonstration

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

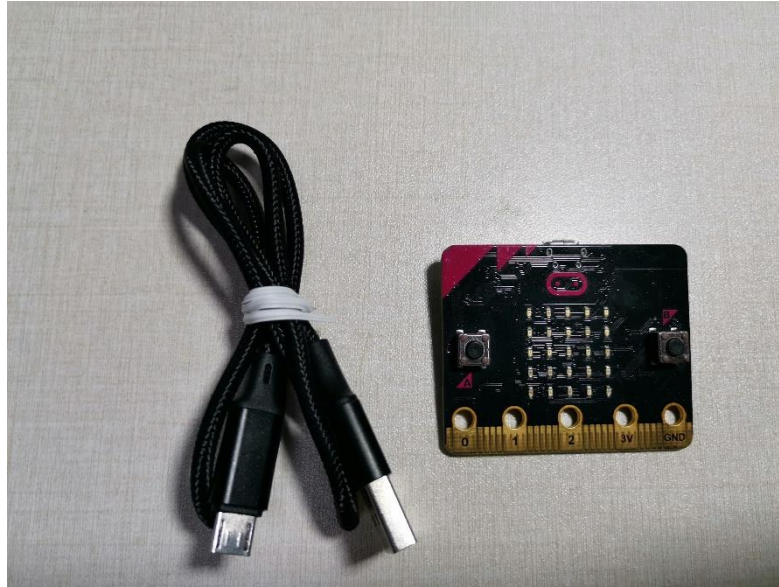
Section 12. accelerometer demonstration



1、Achieve the goal

When the microbit is up and forward, if the microbit is moving forward quickly, it displays an arrow pointing forward. If the microbit moves backwards quickly, it displays a backward arrow.

Section 12. accelerometer demonstration

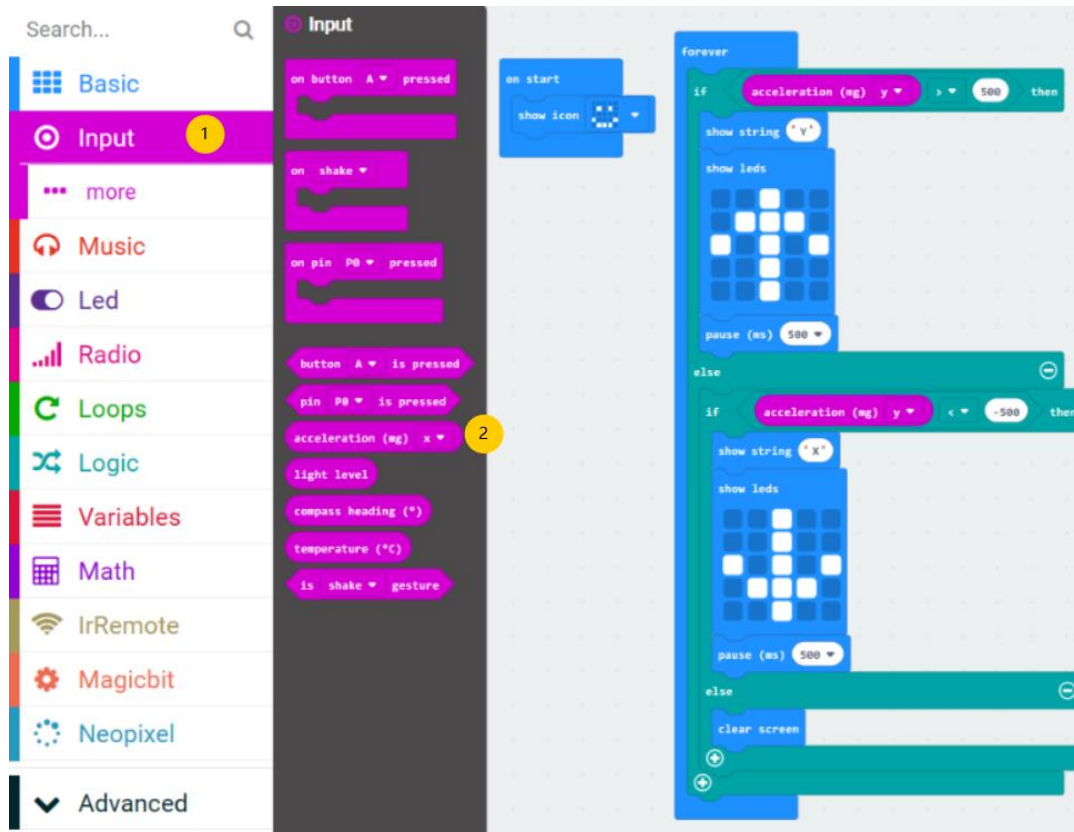


2、Preparation before class

Prepare a microbit motherboard, a USB cable,
and a computer

Section 12. accelerometer demonstration

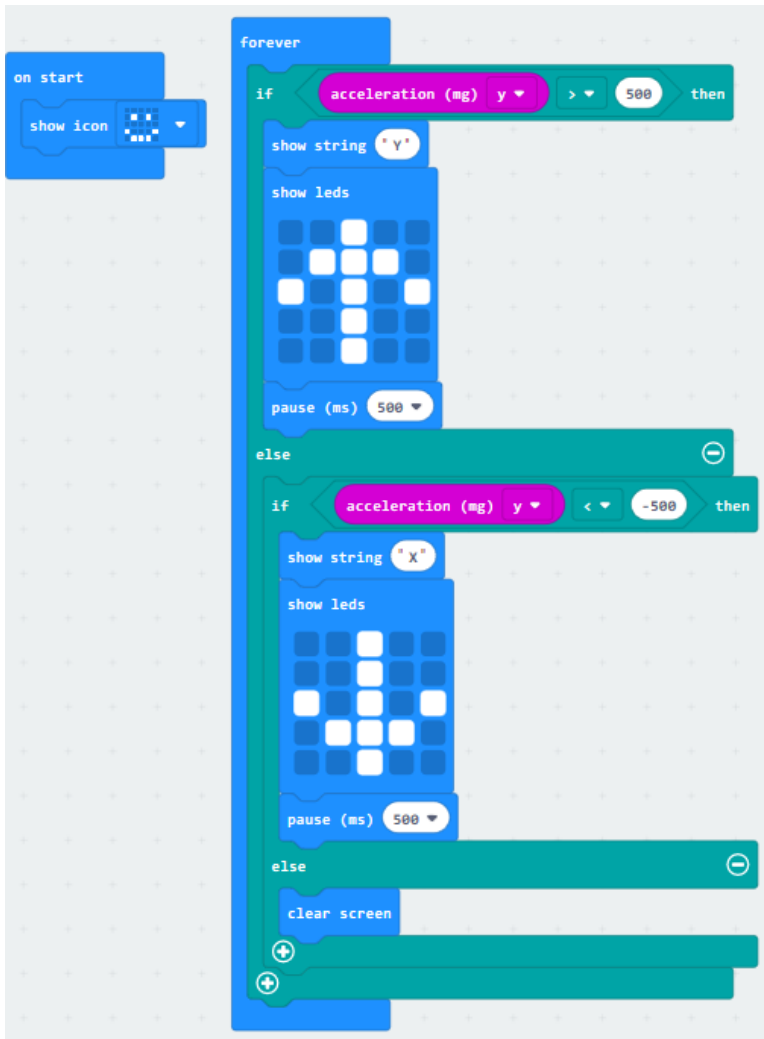
3. Block programming



1. The internal design of microbit includes a gyroscope, which can be used to detect the acceleration of three axes.
2. In the input package, a program block containing an acceleration value will return an acceleration value, and the value of which axis will be selected by the white triangle symbol

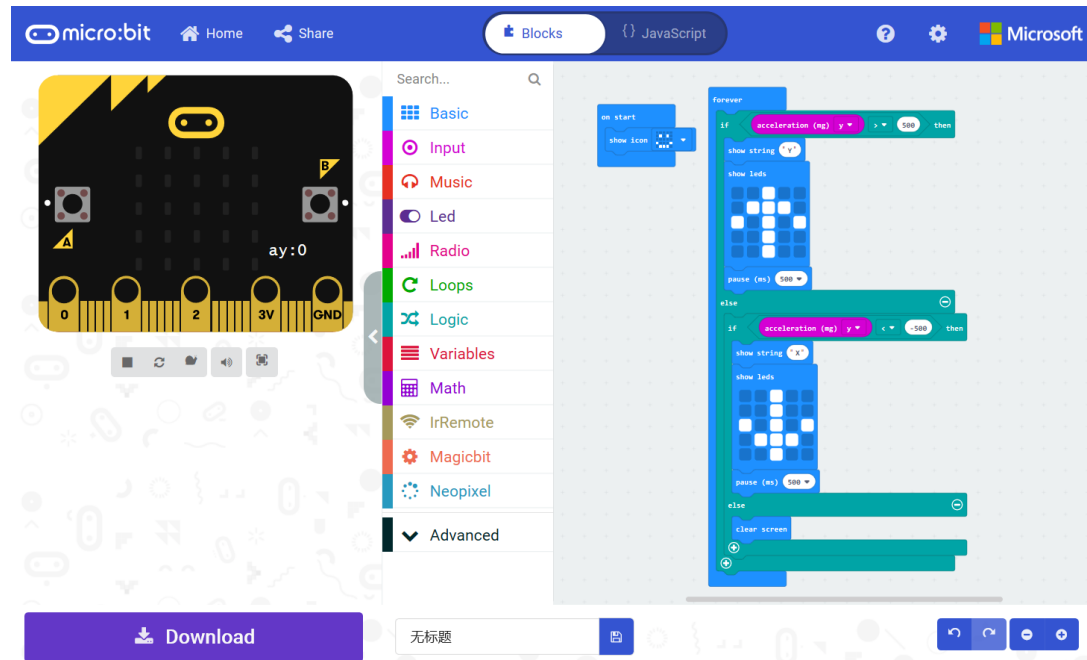
Section 12. accelerometer demonstration

3. Block programming



3. When it is turned on, the screen displays a smiley face.
4. Enter the infinite loop. If the Y-axis acceleration value is greater than 500, the upward arrow will be displayed; if the Y-axis acceleration value is less than -500, the downward arrow will be displayed; otherwise, the screen will be cleared

Section 12. accelerometer demonstration



Download
experience

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



Section 12. accelerometer demonstration

Did your
program
work ??

When moving
to the left and
right, can you
show the left
and right
arrows? Use
your
imagination
and start
creating!!