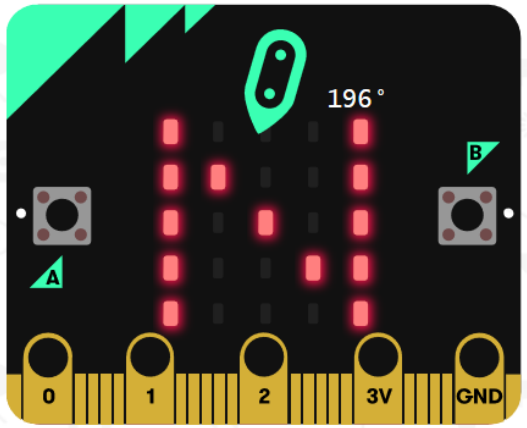
Section 7. Microbit compass

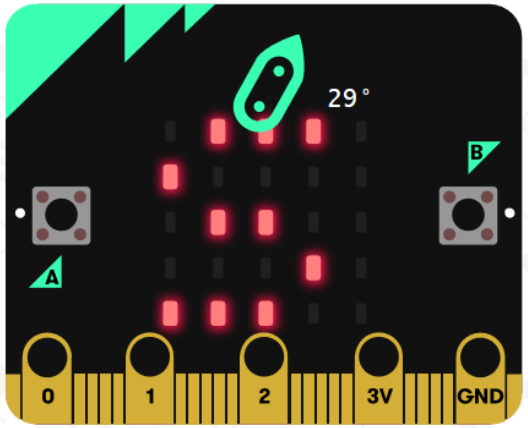
1、Achieve the goal

2、Preparation before class

3、Block programming

Section 7. Microbit compass





1、Achieve the goal

When the microbit points to the south, the screen shows S, indicating the south; when the microbit points to the north, the screen shows N, indicating the north; When the microbit points to the east, the screen shows W, indicating the east; When microbit points to the west, it displays E, indicating the west

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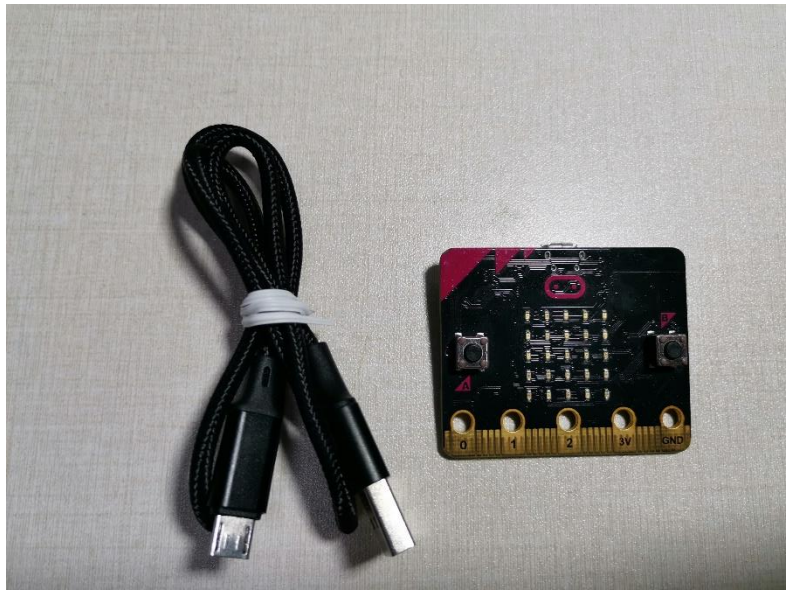

2、Preparation before class

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

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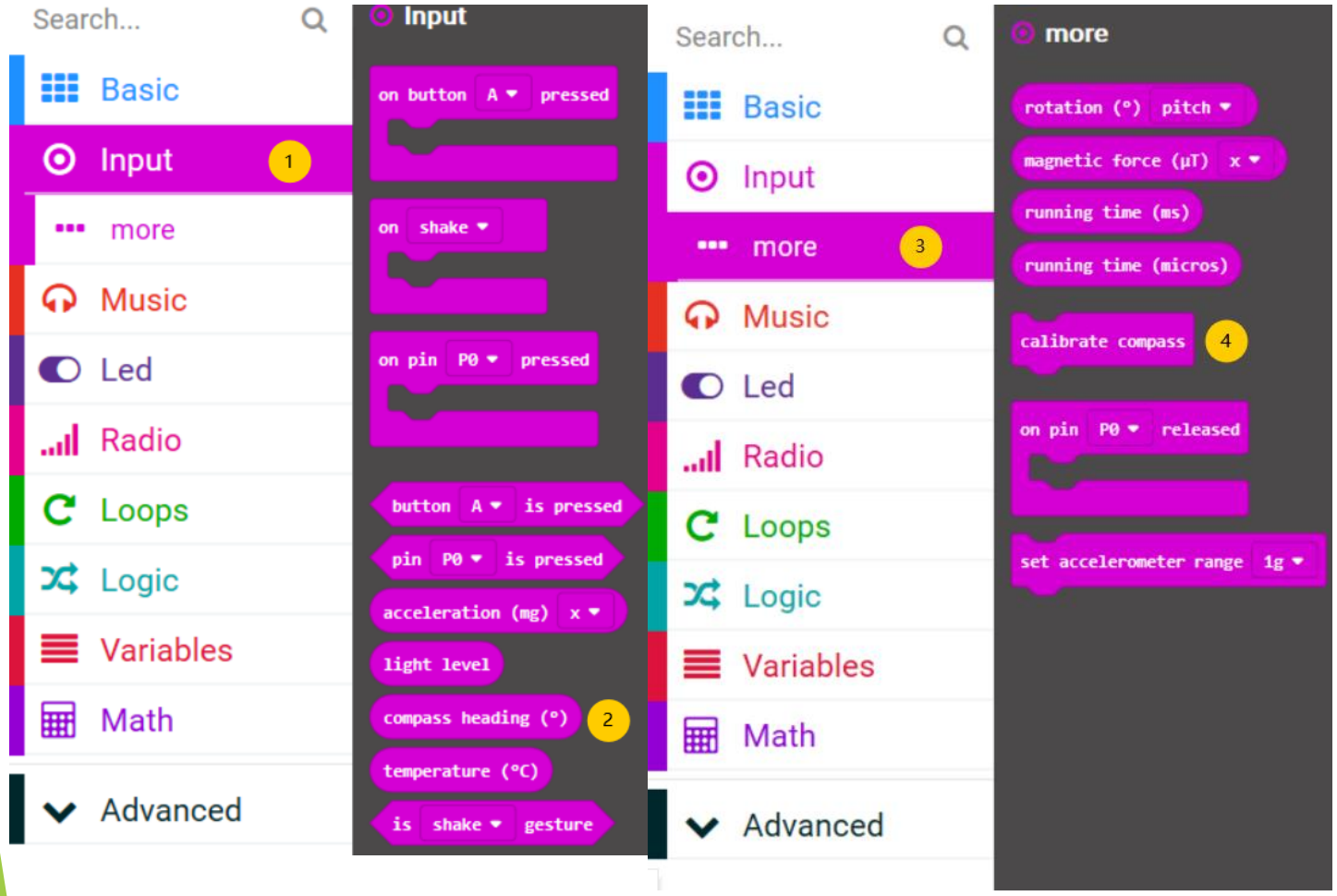

3、Block programming

1. There is a compass-oriented block in the input package, which will return a value indicating the direction
2. In the following more program packages, there is a calibration compass program building block, which can be used to calibrate the compass when starting up

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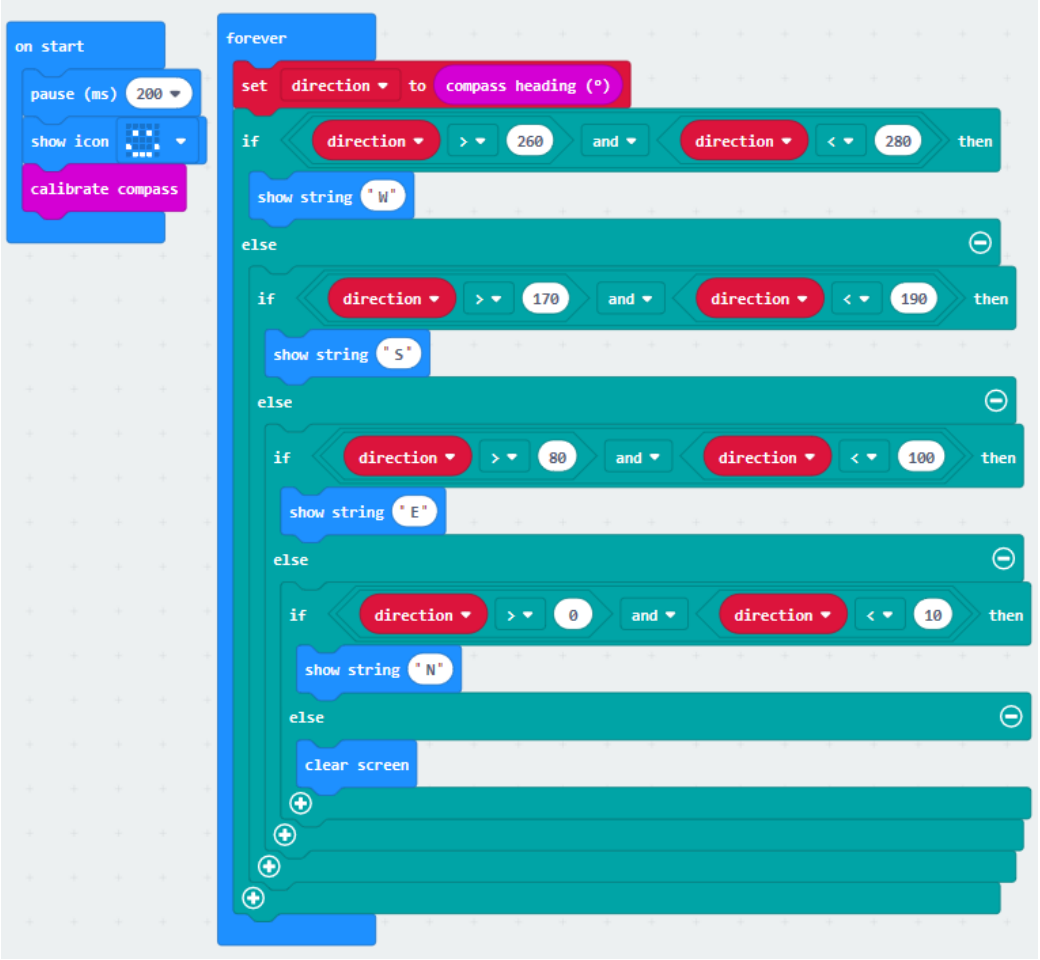

3、Block programming

3. When starting up, the compass will be calibrated after delay. In the infinite loop, assign the value of 'compass orientation' to the variable 'direction'

4. Clear the screen when the microbit is not pointing to the southeast or northwest

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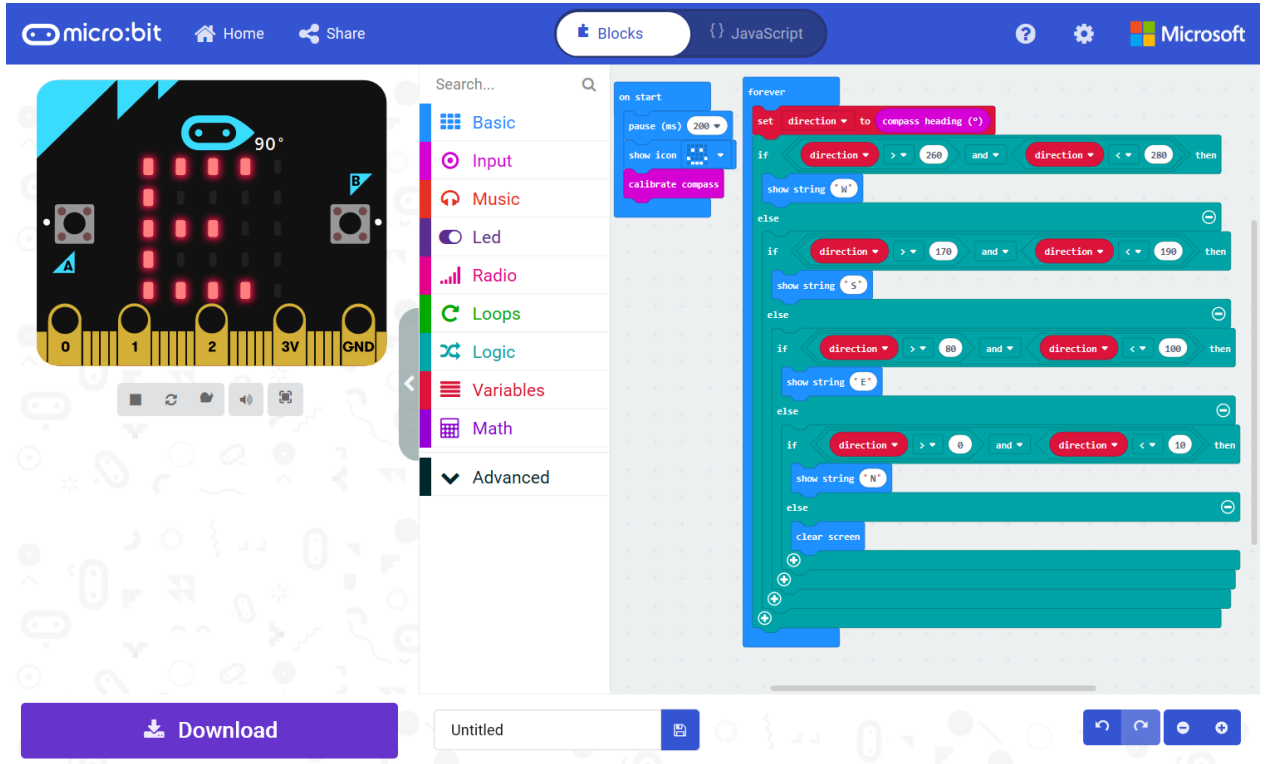

Download experience

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

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Did your program work ??

Can you show it when it's pointing southeast? Use your imagination and start creating!