

4. DIY thermometer

1. Learning goals

In this lesson, we will learn to use micro:bit to realize thermometer function.

2. Working principle

Micro:bit can only detect the temperature of its own chip, not to measure the ambient temperature.

In this course, we mainly use the building blocks shown in the figure below.



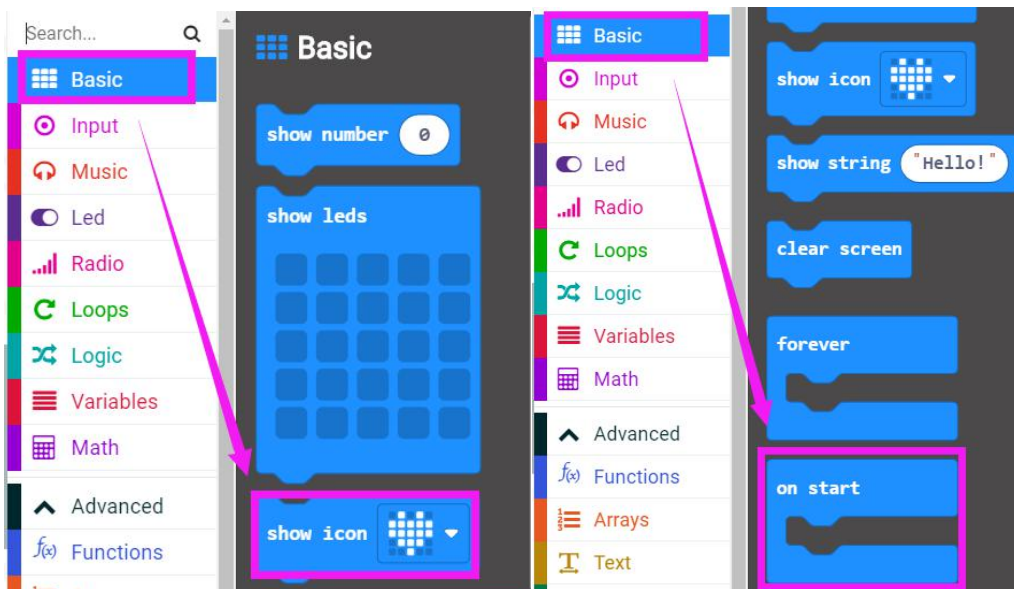
3. Programming method

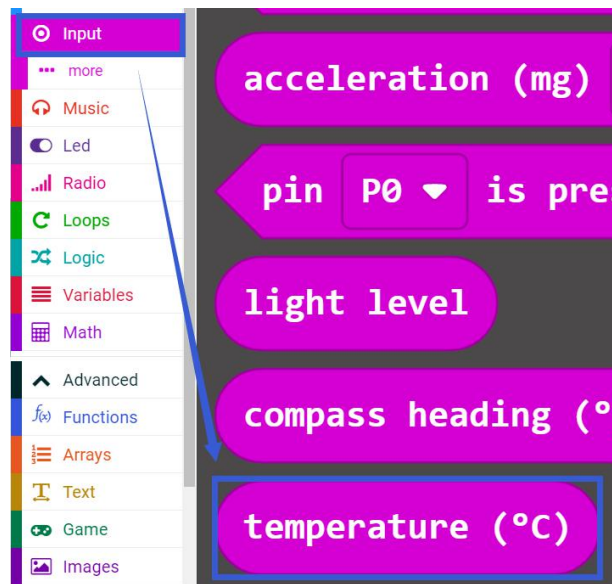
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface to program.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click 【New Project】 , you can program.

4. Looking for blocks

The following is the location of the building blocks required for this programming.





5. Combine block

The summary program is shown below.



6. Experimental phenomena

After the program is successfully downloaded, the micro: bit dot matrix will display scroll the current temperature value.