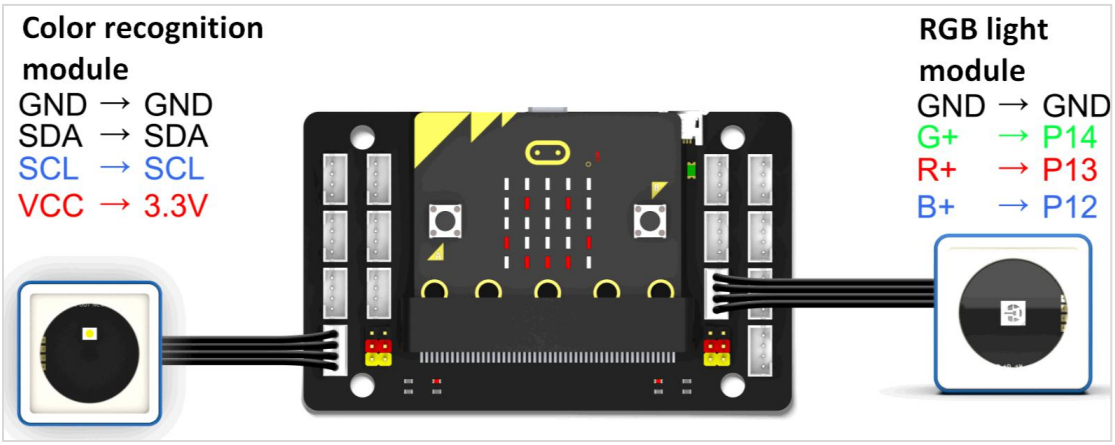
Chameleon

1. Learning target

In this course, we will learn how to use Arduino, RGB light module and color recognition module to chameleon function.

2. Preparation

Connect the module to Micro:bit board by Micro:bit expansion board, as shown below.



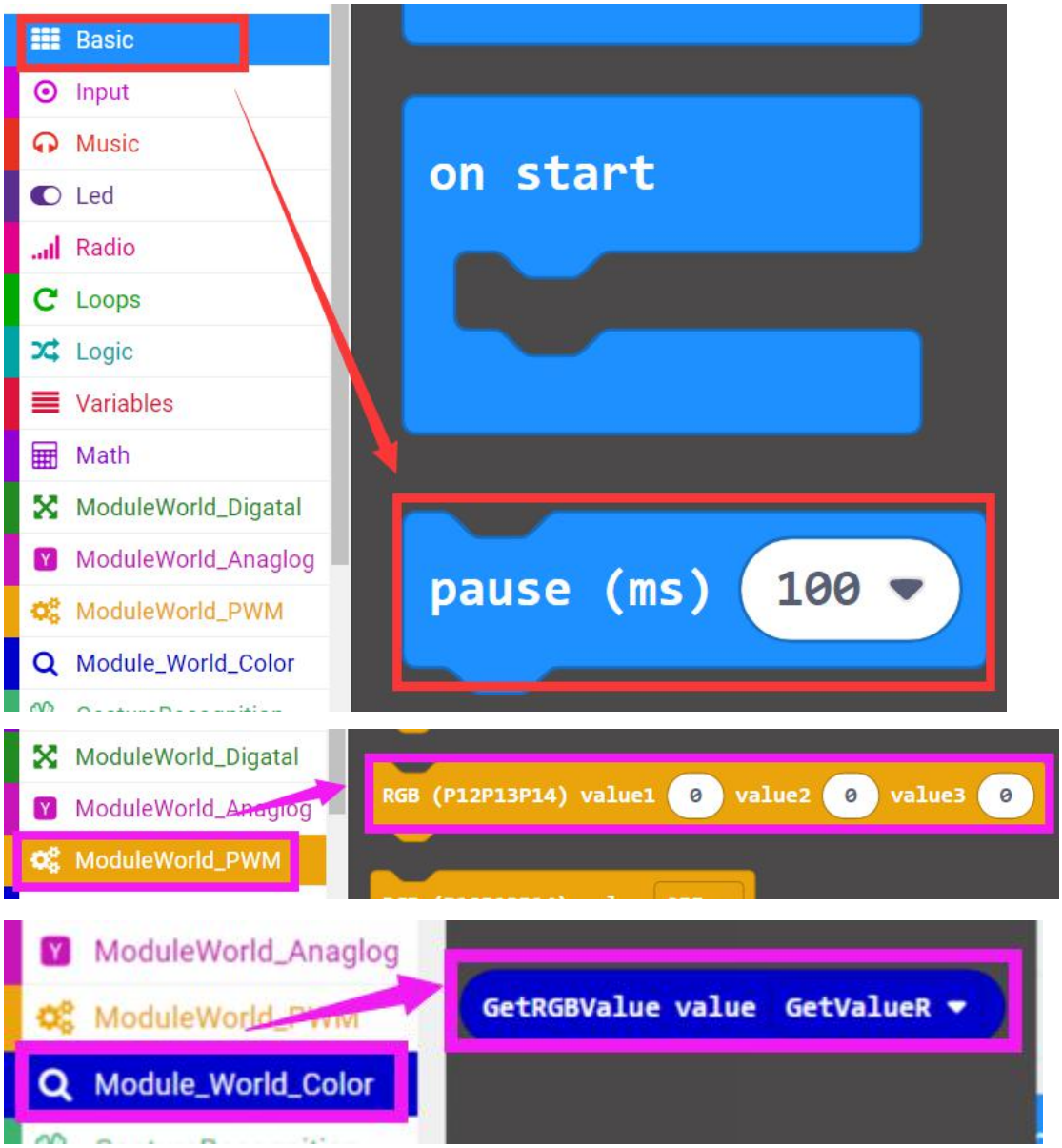
3.Programming method

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. Add the Yahboom package https://github.com/YahboomTechnology/Module-World 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】, add Yahboom package: https://github.com/YahboomTechnology/Module-World , you can start programming.

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.Phenomenon

After the program is downloaded successfully. When the color sensor recognizes different colors, the RGB lights display the corresponding colors.