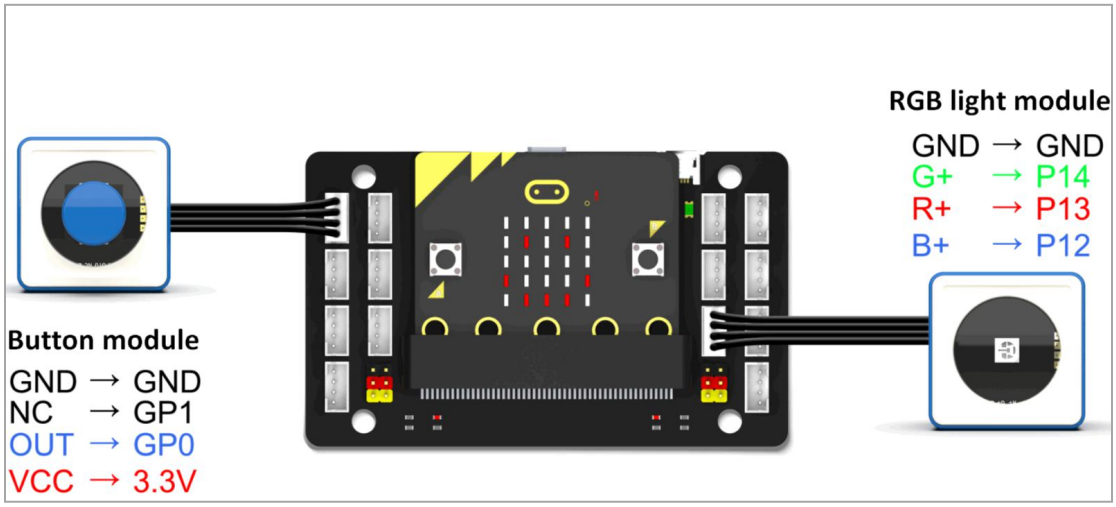
Table lamp

1. Learning target

In this course, we will learn how to use Micro:bit and RGB light module to make a button lamp.

2. Preparation

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



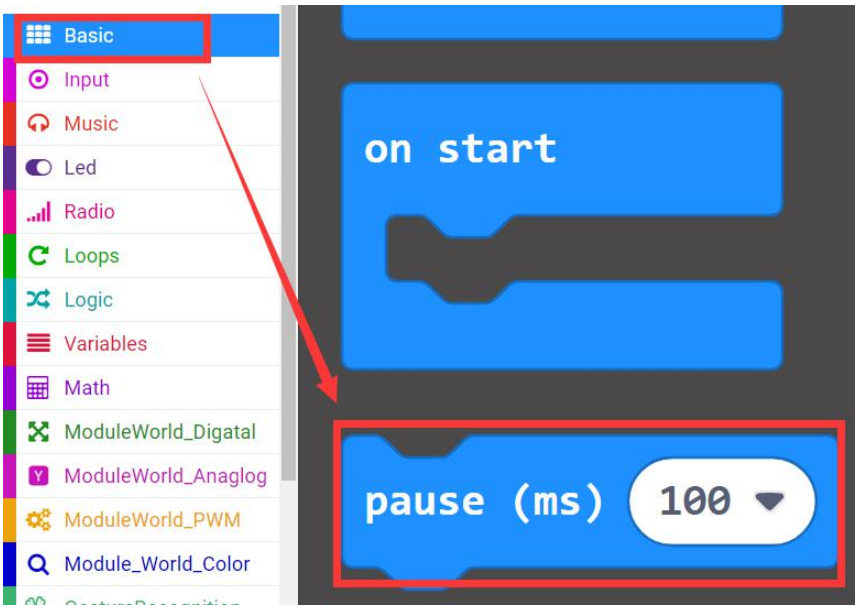
3.Programming method

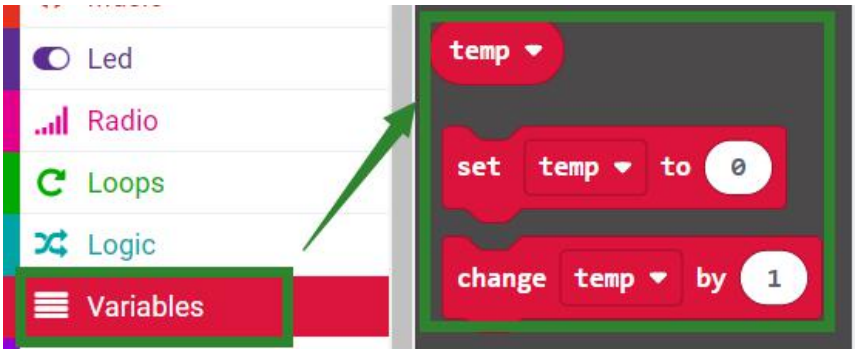
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: http://microbit.org/ to enter the programming interface. Add the Yahboom package https://github.com/YahboomTechnology/Module-World to program.

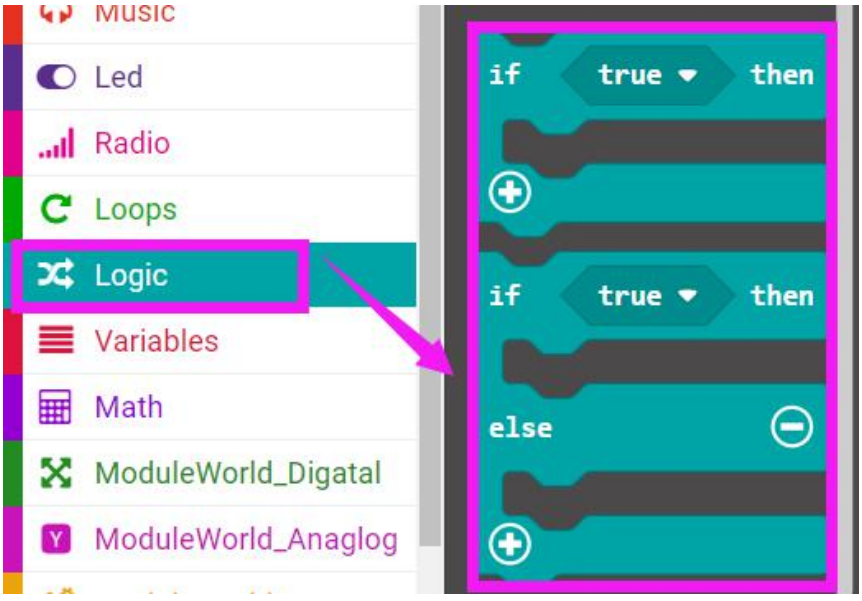
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, add Yahboom package: https://github.com/YahboomTechnology/Module-World , you can start programming.

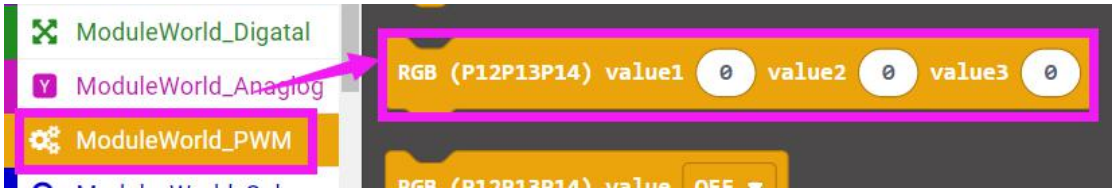
4.Looking for blocks

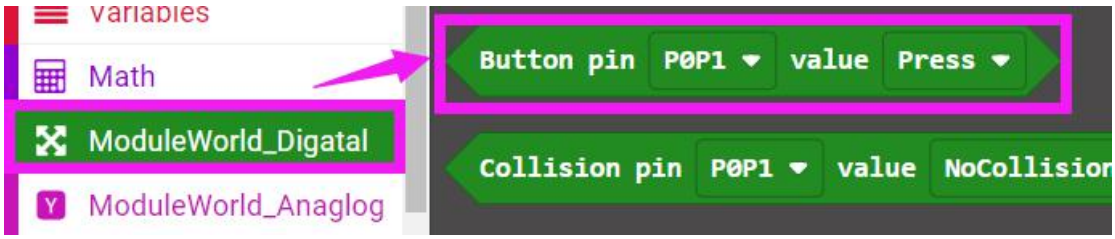
The following is the location of the building blocks required for this programming.


Basic
Input
Music
Led
Radio
Loops
Logic
Variables
Math
ModuleWorld_Digatal
ModuleWorld_Anaglog
ModuleWorld_PWM
Module_World_Color
on start
pause (ms) 100


Led
Radio
Loops
Logic
Variables
temp
set temp to 0
change temp by 1

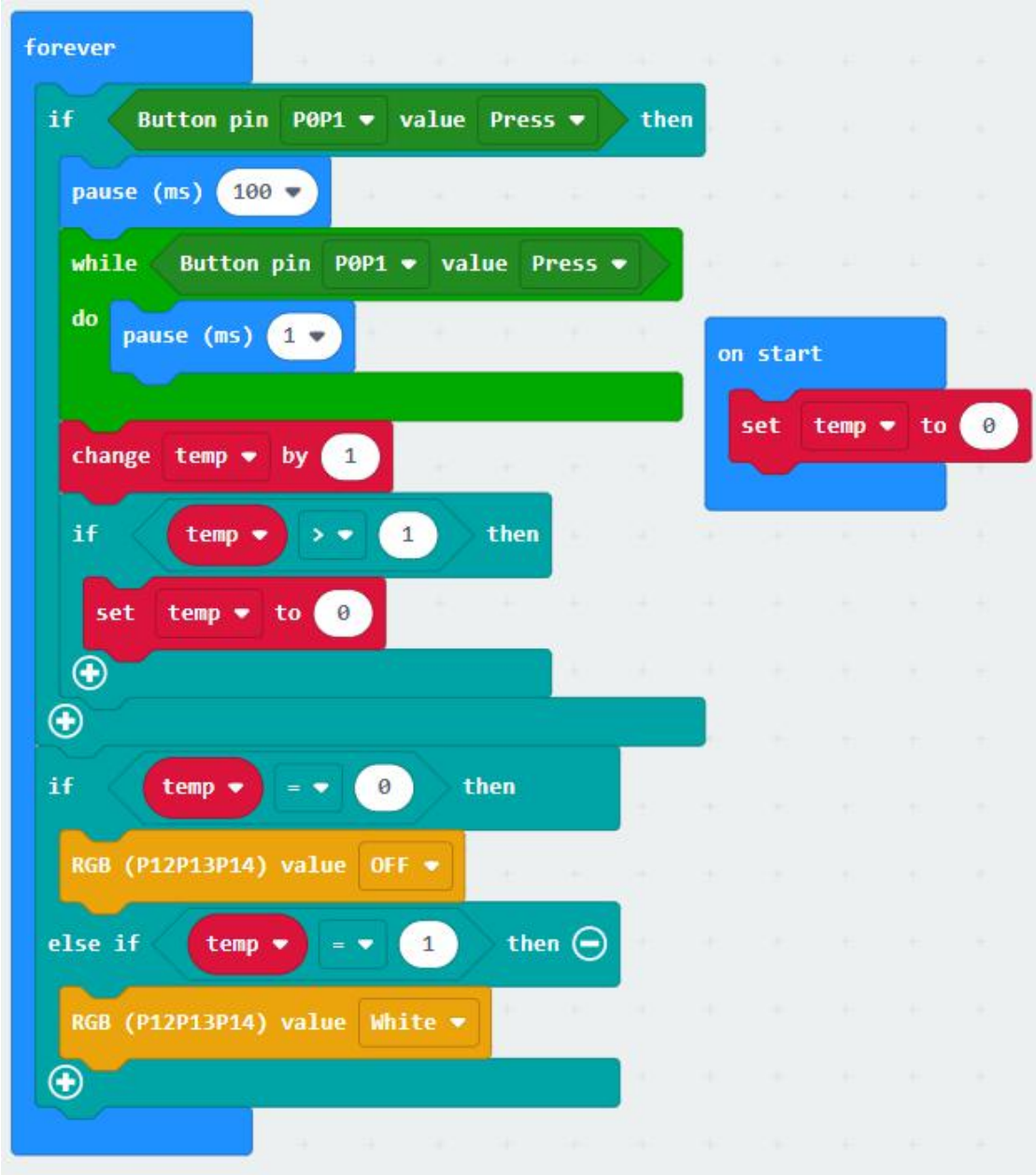

Music
Led
Radio
Loops
Logic
Variables
Math
ModuleWorld_Digatal
ModuleWorld_Anaglog
if true then
if true then
else


ModuleWorld_Digatal
ModuleWorld_Anaglog
ModuleWorld_PWM
RGB (P12P13P14) value1 0 value2 0 value3 0



5.Combine block

The summary program is shown below.



6.Experimental phenomena

After the program is downloaded successfully. When we press button module at the first time, RGB light will become white; when we press button module at the second time, RGB light will off.