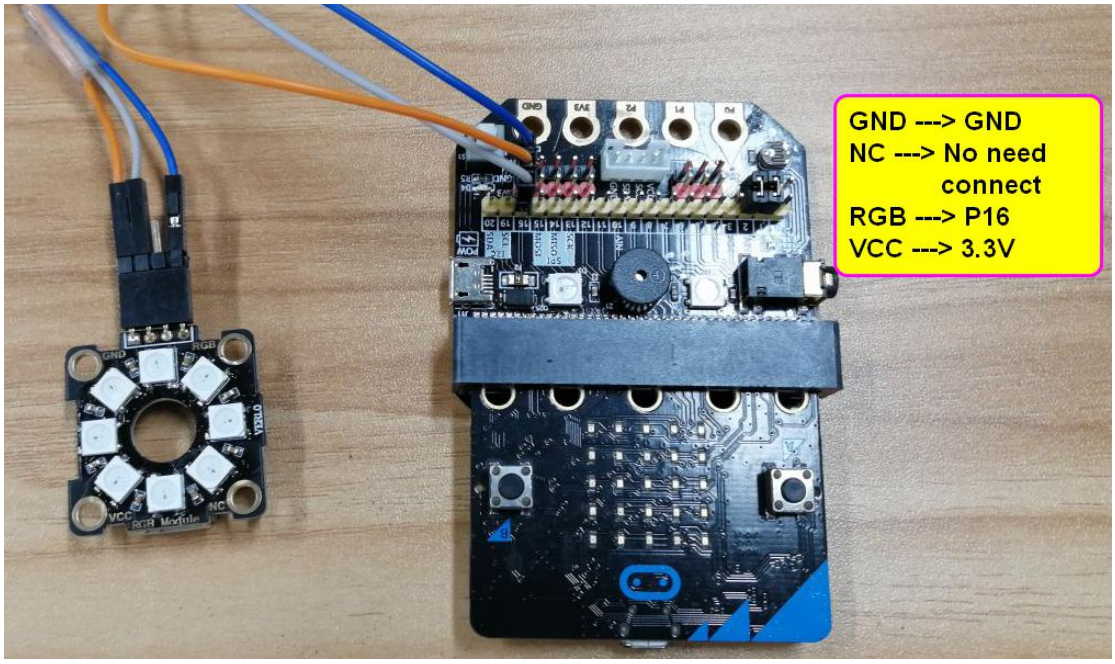
Breathing light

1. Learning target

In this course, we will learn how to use Micro:bit and RGB light module to achieve light up a RGB.

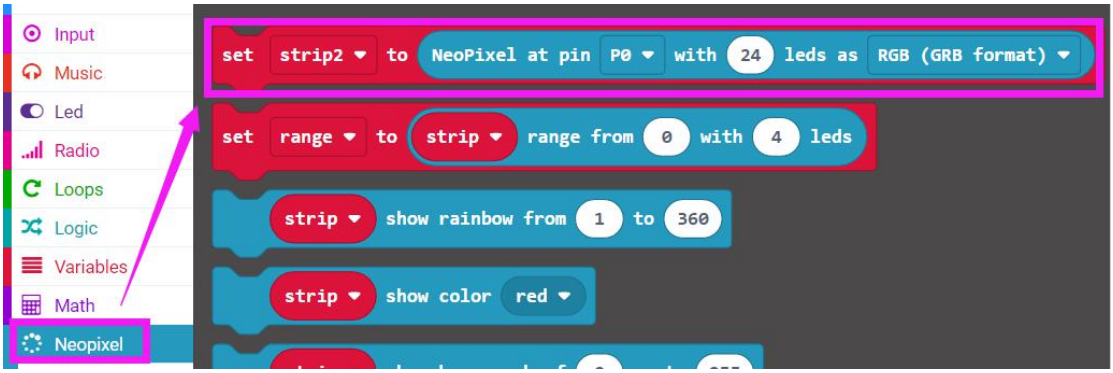
2. Preparation

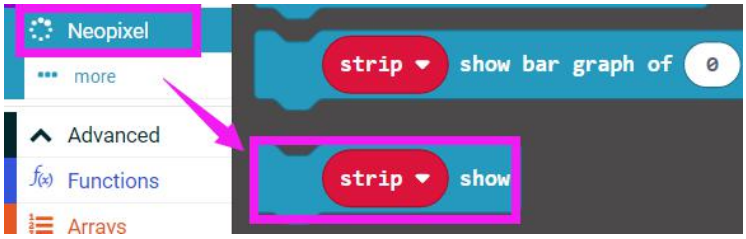
Connect the module to Micro:bit board by expansion board, as shown below.



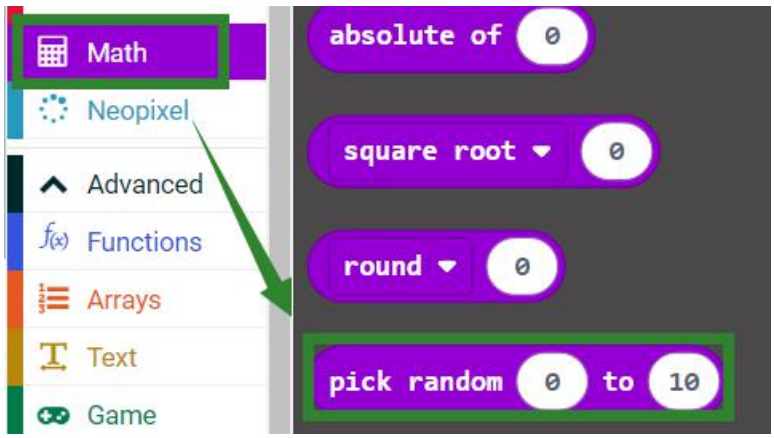
4.Looking for blocks

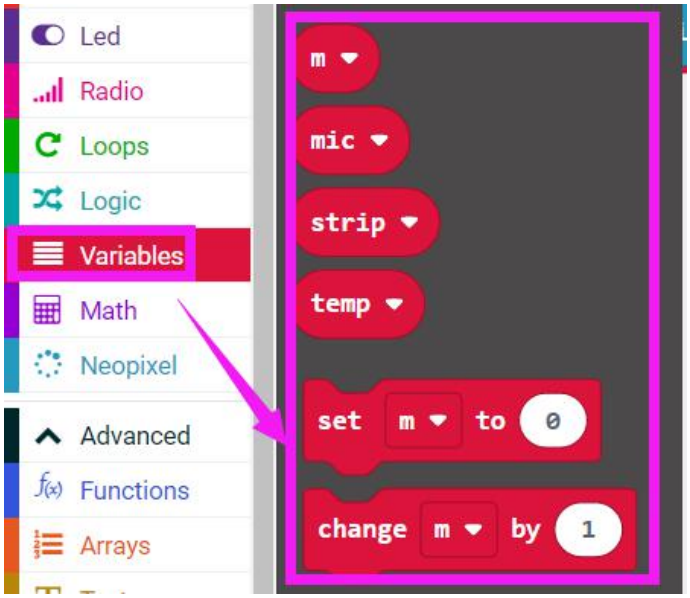
The following is the location of the building blocks required for this programming.




Neopixel
more
Advanced
Functions
Arrays
strip show bar graph of 0
strip show

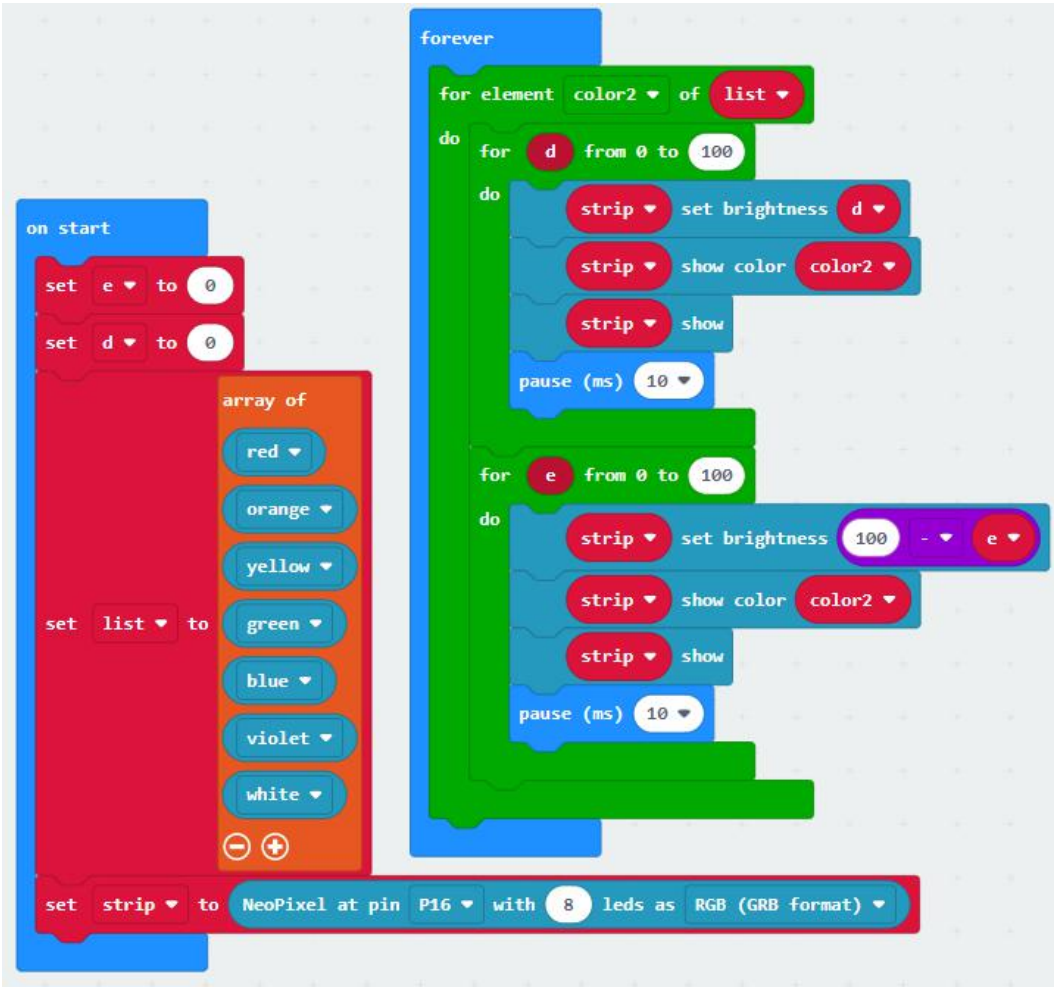

Led
Radio
Loops
Logic
Variables
Math
Neopixel
more
strip set pixel color at 0 to red
strip length
strip set brightness 255
strip ease brightness


Math
Neopixel
Advanced
Functions
Arrays
Text
Game
absolute of 0
square root 0
round 0
pick random 0 to 10


Led
Radio
Loops
Logic
Variables
Math
Neopixel
Advanced
Functions
Arrays
m
mic
strip
temp
set m to 0
change m by 1

5.Combine block

The summary program is shown below.



6.Experimental phenomena

After the program is downloaded successfully, Micro:bit dot matrix will display heart,all lights on module will go from on to off, and then from off to on, and it will switch to a different color each time, realizing the effect of a breathing light.