

Hunters

1.Learning goal

In this course, we learn how to make a hunters game.

2.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

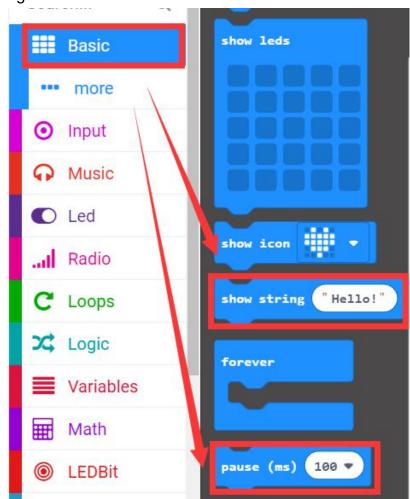
https://github.com/lzty634158/LED-Bit to program.

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:

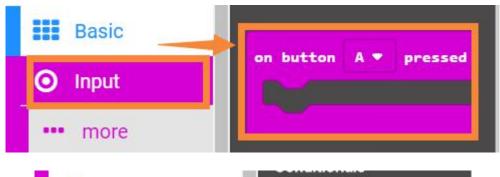
https://github.com/lzty634158/LED-Bit, you can program.

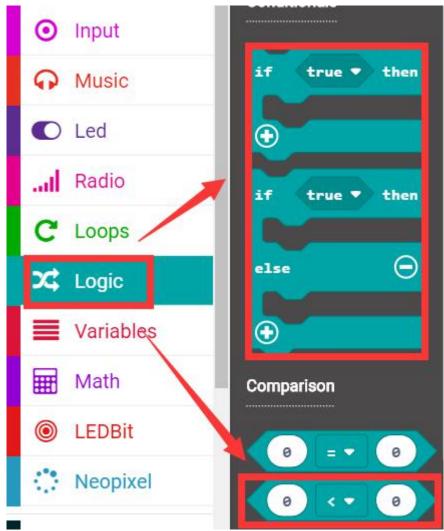
3.Looking for blocks

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

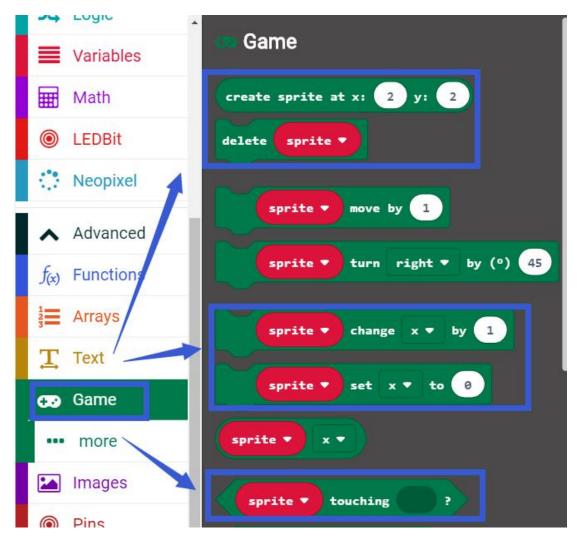




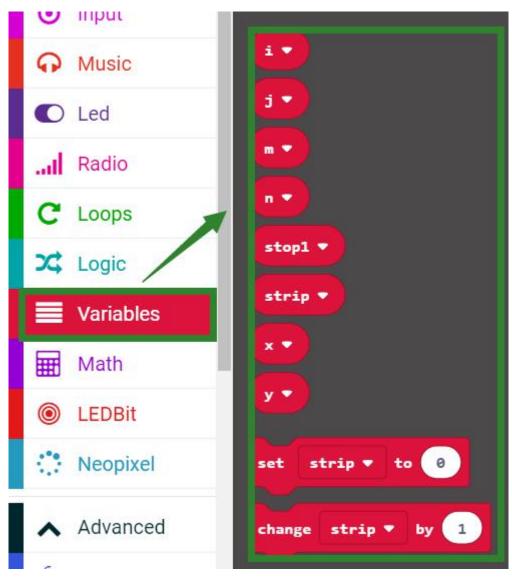


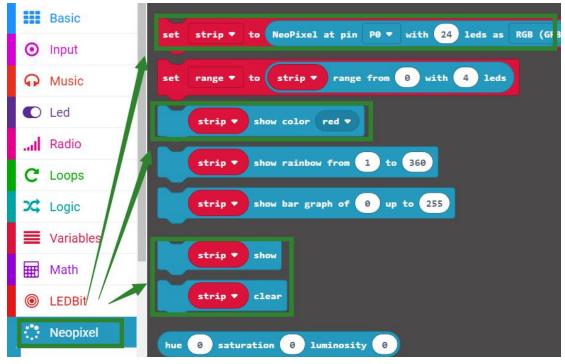




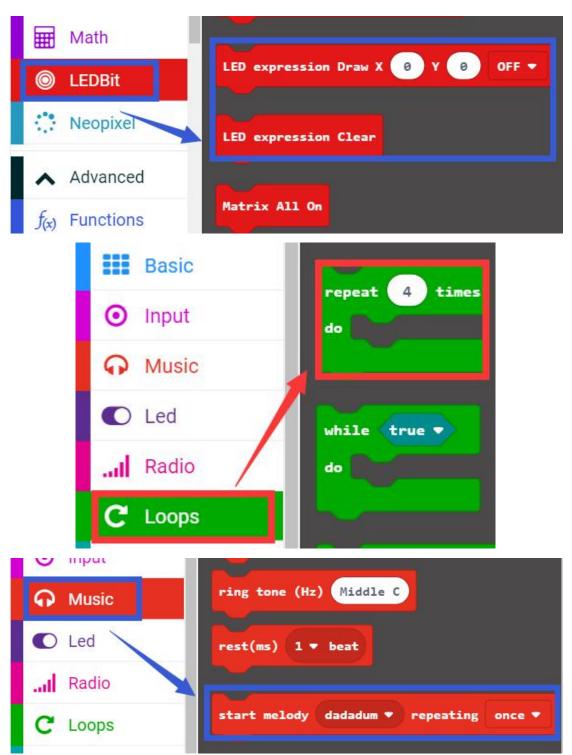










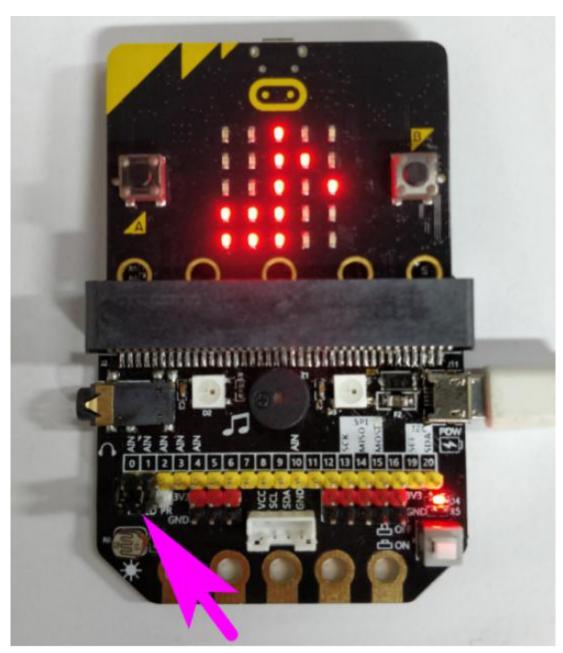


4.Combine building block

Please refer to the hex file for the procedure of this experiment.

Note: The jumper cap needs to be connected to the P1 and LED pins, P1 and LED pins. As shown below.





5. Game rules

After the program is successfully downloaded,

LED: bit coordinates(0, 0) will be illuminated, indicating that there is a "prey" in the warehouse.

At the same time, the middle position (coordinates 2, 2) of the micro:bit dot matrix will be illuminated. This is the "hunter".

And the micro:bit dot matrix will randomly illuminate a different point, indicating "new prey."

We can capture the "prey" by pressing the A, B button to control the direction of the "hunter", and when the two points come together, the hunter has captured the prey. At this point, the buzzer will play a piece of music, and the LED:bit dot matrix will light up a new point, indicating that there will be a new "prey" in the warehouse.



!!!Note: There is no time limit for this game until the LED:bit dot matrix is lit full screen and the game will end.

If you need to restart the game, press the micro:bit reset button.