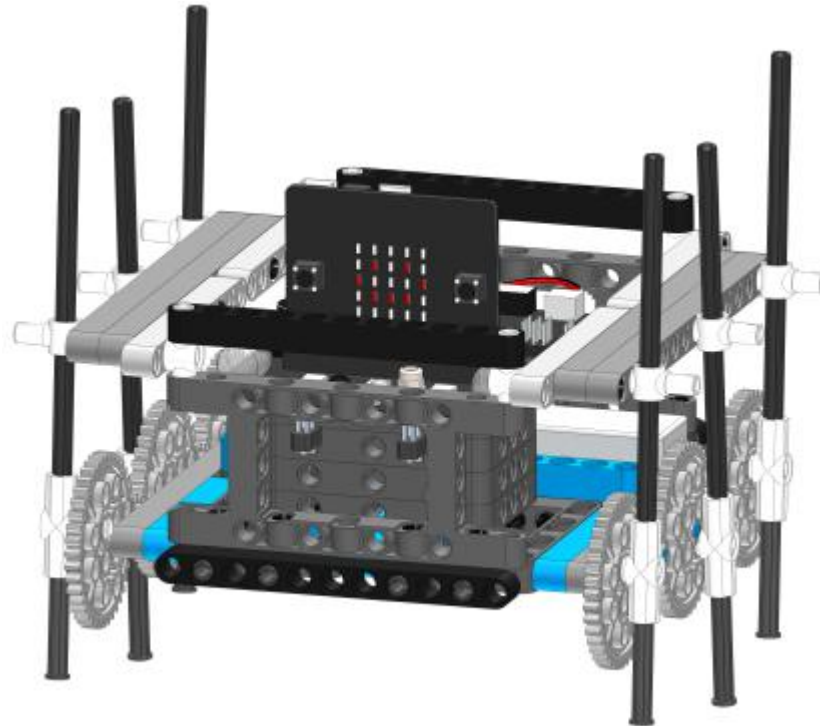## Lesson 1 Building:bit Hexapod robot---"Hexapod robot advance"

1.Experimental phenomena

After downloading the program, turn on the power switch of the Hexapod robot, the Hexapod robot will run forward and a smile will appear on the micro:bit dot matrix.

2.Preparation before class

We needs to be ready:

Hexapod robot*1

USB data cable*1

2-1.Two programming methods:
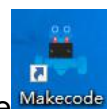
Online programming:

First,we need to connect the micro:bit to the computer by USB data cable, the computer will pop up a USB flash drive.Then, click on the URL in the USB flash drive: http://microbit.org/ to enter the edit process interface, click to 【Extensions】, and copy the package URL: https://github.com/lzty634158/yahboom_mbit_en to the input field, and you can use the building blocks of the Yahboom software package.
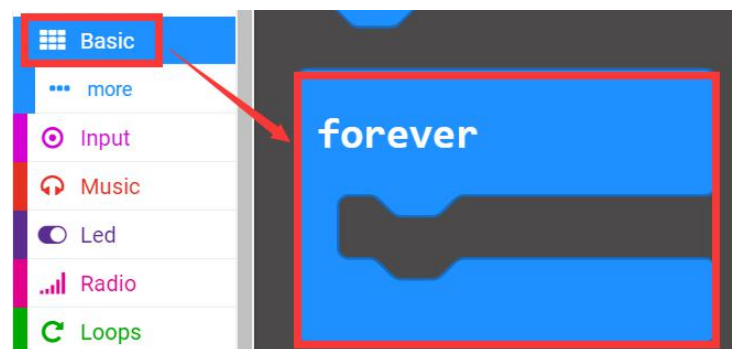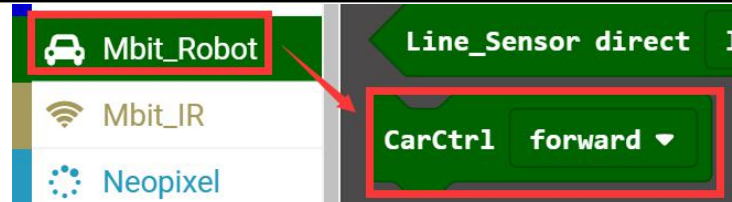
Offilne programming:

Open the offline programming software, click to 【Extension】 and copy the package URL: https://github.com/lzty634158/yahboom_mbit_en to

the input field, and you can use the building blocks of the Yahboom software package.

For detailed programming, please read the documentation before class 【1. Preparation before class】----【Introduction of programming method】. We use micro:bit official website for online programming in here.

3.Studying blocks

Blocks	Instruction
Basic / more / Input / Music / Led / Radio / Loops — forever	The code inside is executed after booting.
Mbit_Robot / Mbit_IR / Neopixel — Line_Sensor direct / CarCtrl forward	The robot's motion state selection.You can select forward,back,turn left, turn right,rotate left, rotate right, and stop.
Basic — show icon	Display image on the lattice of micro:bit.

4.Programming

Next, we started to write the advance program for the building block Hexapod robot. After writing, we need to download the program to the micro:bit board of the building block Hexapod robot.

forever
show icon

forever
CarCtrl forward