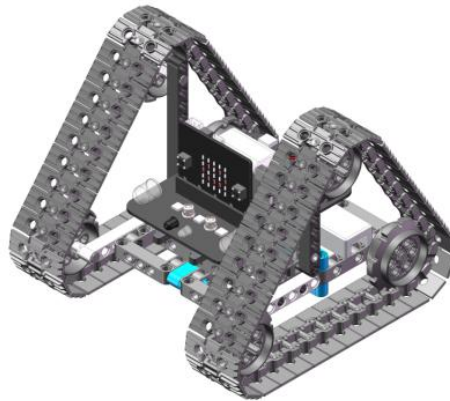## Lesson1 of Building:bit Caterpillar tripod advance ---" advance"

1.Experimental phenomena

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

2.Preparation before class

We needs to be ready:
 Caterpillar tripod *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.
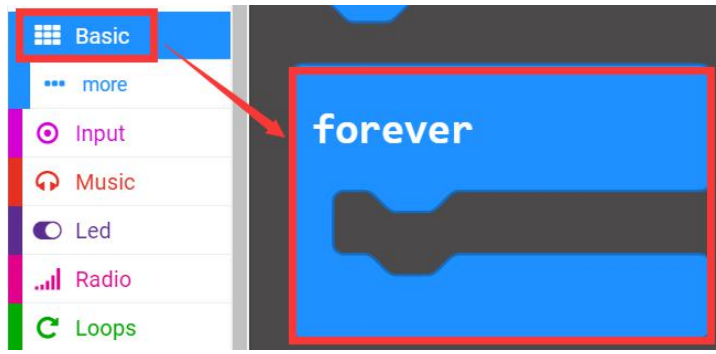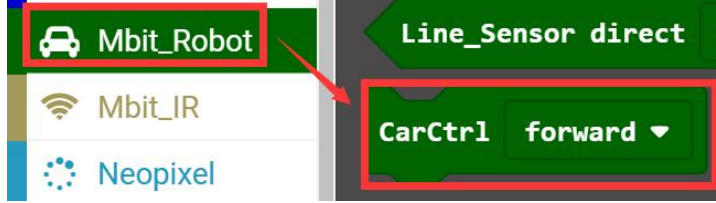
Offilne programming:

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	Intrustion
	The code inside is executed after booting.
	The car's motion state selection.You can select forward,back,turn left, turn right,rotate left, rotate right, and stop.
	Display image on the lattice of micro:bit.

4.Programming

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