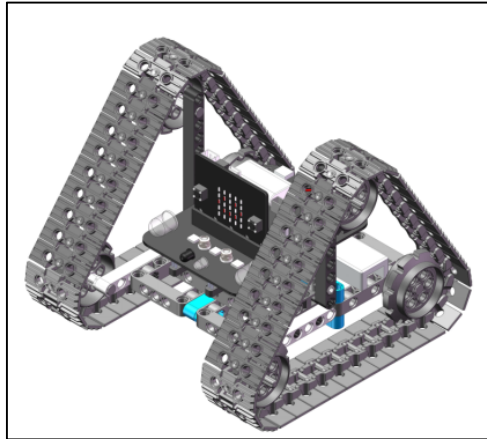


Python course Caterpillar tripod ---“ advance”



1. Learning goals

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 need to be ready:

Caterpillar tripod *1

USB data cable *1

3. Programming

```

1 # -*- coding: utf-8 -*-# Encoding cookie added by Mu Editor
2 from microbit import display, Image
3 import buildingbit
4
5 display.show(Image.HAPPY)
6 buildingbit.car_run(255, 255, 0)
7

```

1) Import buildingbit library: **import buildingbit**

We also need to use display library: **from microbit import display**

2) **display.show(Image.HAPPY)** Display smile.

3) **buildingbit.car_run(255, 255, 0)** make robot advance.\

Code as shown below:

```

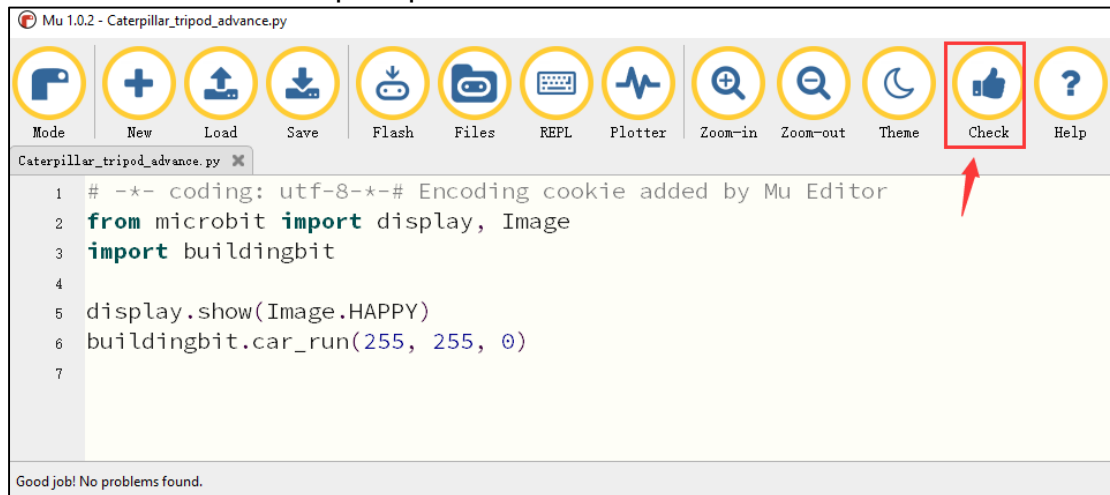
1 # -*- coding: utf-8 -*-# Encoding cookie added by Mu Editor
2 from microbit import display, Image
3 import buildingbit
4
5 display.show(Image.HAPPY)
6 buildingbit.car_run(255, 255, 0)
7

```

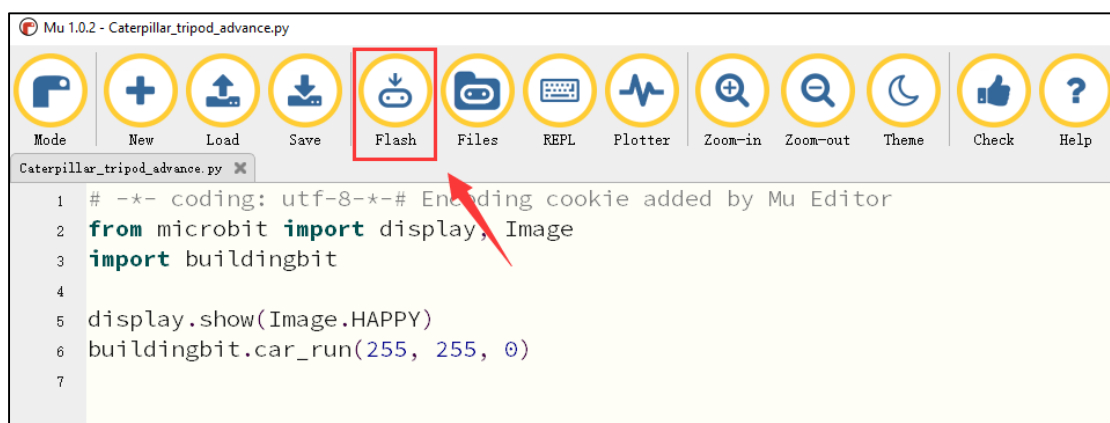
4. Download program

4.1 After programming is complete, please connect the computer and the micro:bit board with a Micro USB data cable.

4.2 You need to click the **【Check】** button to check if our code has an error. If a line appears with a cursor or an underscore, the program indicating this line is wrong. If there is no cursor or underline, it means that the code is correct, and the bottom left will prompt that the check is OK.



4.3 Click the **【Flash】** button to download the program to the micro: bit board of the building block Caterpillar tripod.



If the program is wrong or the experimental phenomenon is wrong after downloading, please confirm whether you have downloaded the Buildingbit library hex file we provided to the micro: bit board.

For the specific method of adding library files, please refer to 【1.Preparation before class】 --- 【Python programming】