

Python Basic Course6-Sing a song

Learning goals:

In this lesson, you can use the micro:bit robot to play music, the robot sings a happy birthday song, and the dot matrix displays a buzzer pattern.

Code:

```
from microbit import *
import music
boat = Image("00090:90990:99990:90990:00090")
display.show(boat)
music.play(music.BIRTHDAY)
```

Below is a complete list of melody:

- music.DADADADUM
- music.ENTERTAINER
- music.PRELUDE
- music.ODE
- music.NYAN
- music.RINGTONE
- music.FUNK
- music.BLUES
- music.BIRTHDAY
- music.WEDDING
- music.FUNERAL
- music.PUNCHLINE
- music.PYTHON
- music.BADDY
- music.CHASE
- music.BA_DING
- music.WAWAWAWAA
- music.JUMP_UP
- music.JUMP_DOWN
- music.POWER_UP
- music.POWER_DOWN

Programming and downloading:

1. You should open the Mu software, and enter the code in the edit window, , as shown in Figure 6-1.

Note! All English and symbols should be entered in English, and the last line must be a space.

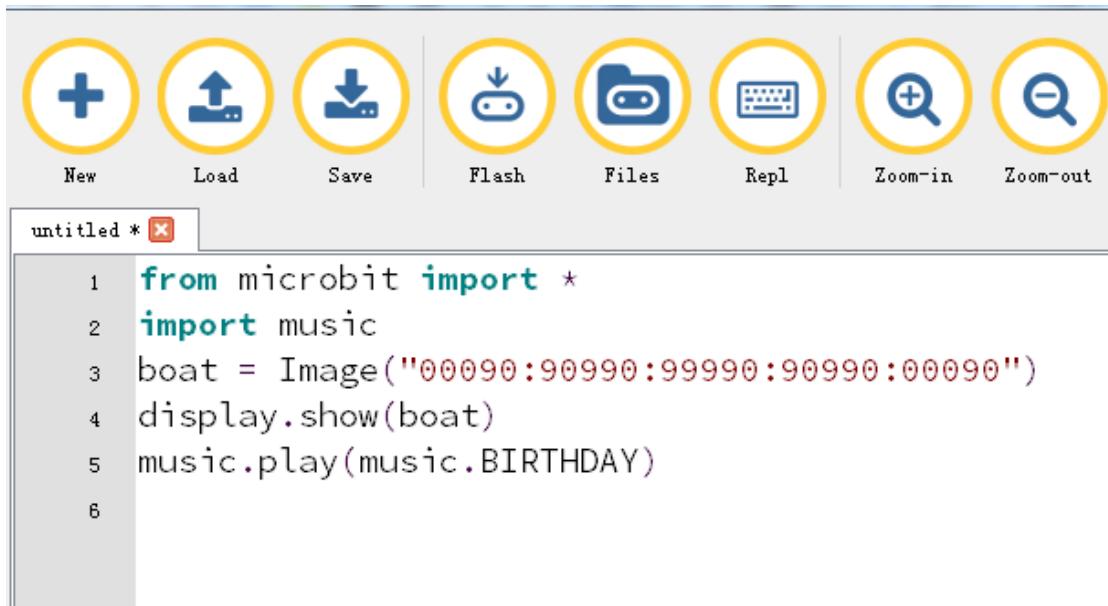


Figure 6-1

2. As shown in Figure 6-2, 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.

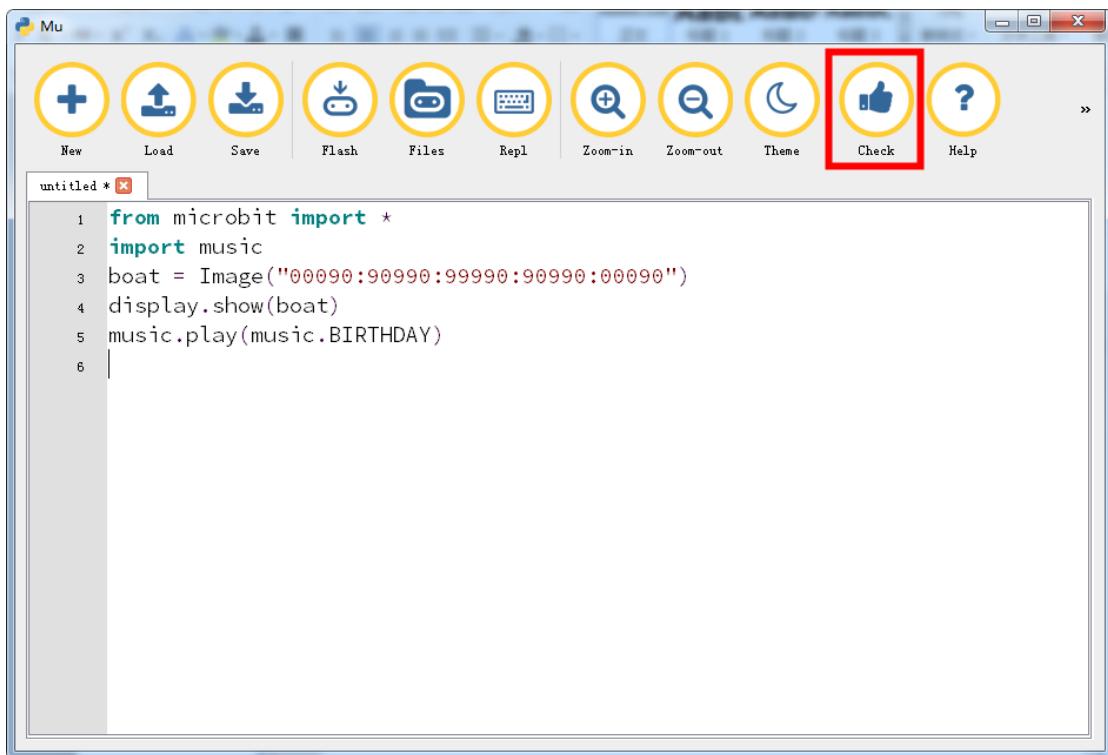


Figure 6-2

3. You need to connect the micro data cable to micro:bit and the computer, then click the Flash button to download the program to micro:bit as shown in Figure 6-3.

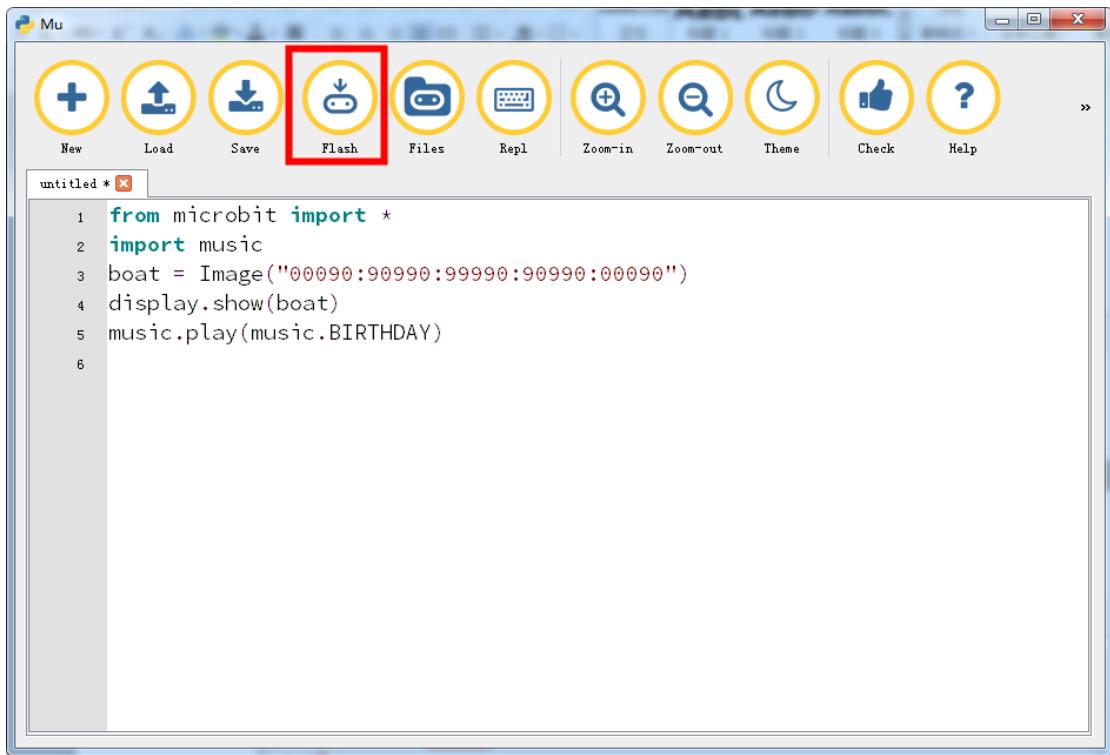


Figure 6-3

4. After downloading the program, you can hear Micro:bit playing Happy Birthday and a buzzer on the micro:bit dot matrix. as shown in Figure 6-4.

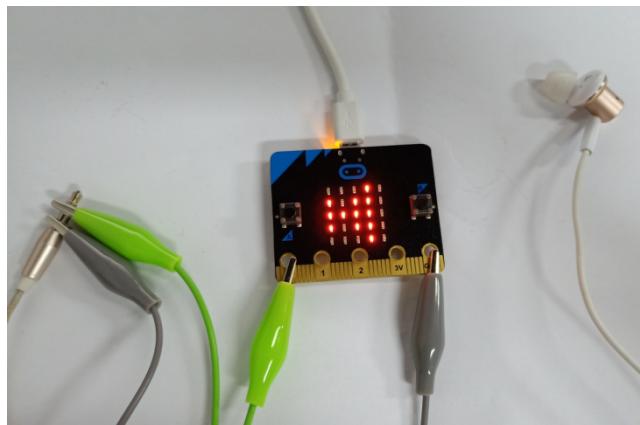


Figure 6-4