

## 6.Listen to music

### 1. Learning goals

In this lesson, we will learn to use micro:bit to make a music player, because micro:bit itself does not have audio equipment.

We need to install micro:bit on the Wrist:bit watch expansion board and use the buzzer above to play music.

### 2.Code and analysis

```
Listen to music.py x
1 from microbit import *
2 import music
3
4 display.show(Image.MUSIC_QUAVERS)
5 music.play(music.DADADADUM)
6 display.show(Image.MUSIC_QUAVERS)
7
```

#### **from microbit import \***

This code is to import everything from the microbit library, and any program need to uses import this library.

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

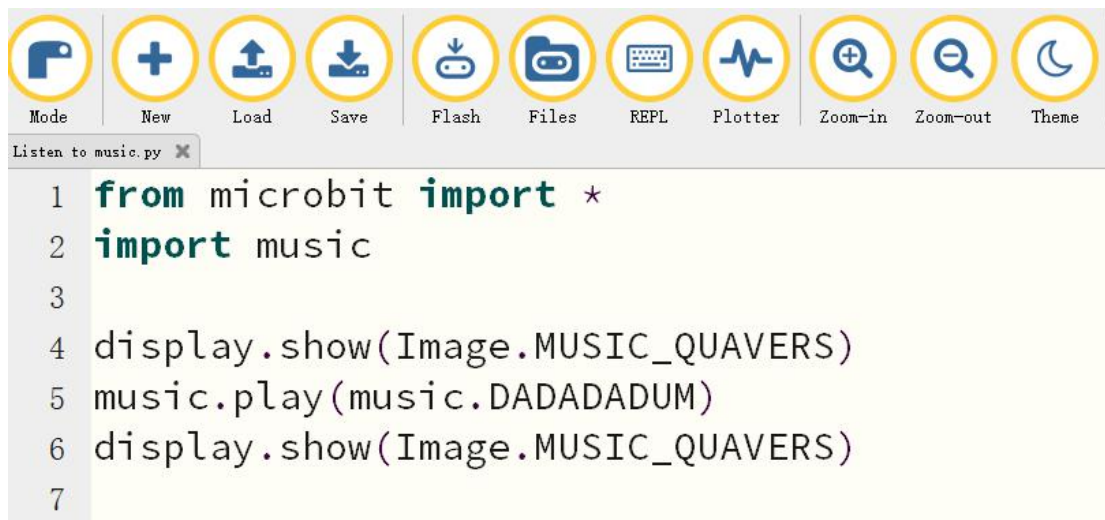
**Note:**

- 1 - The capital letter/lowercase letters must be distinguished !
- 2 - Correct spelling!
- 3 - Keywords such as # need a space between the content.
- 4 - You can only use the Tab key (tabulation key) for indentation.

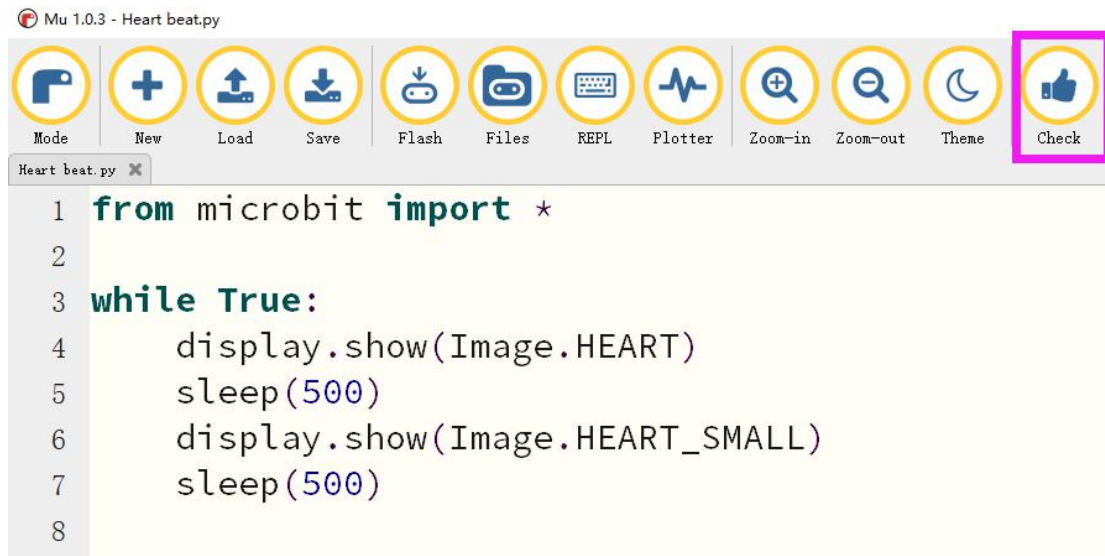
**3. Programming and downloading**

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

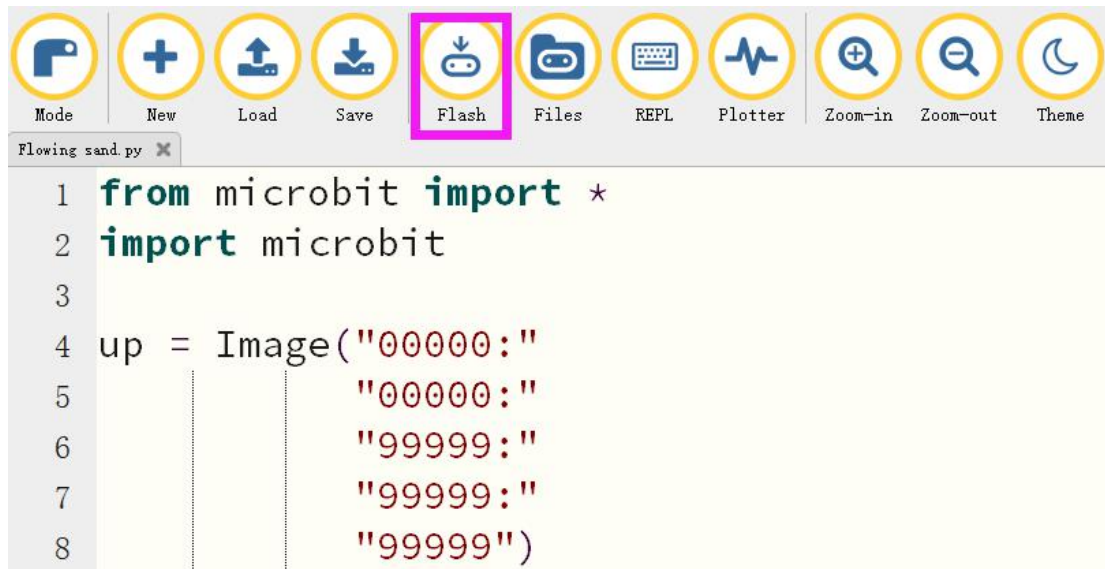
**Note! All English and symbols should be entered in English, and the last line must be a space.**



3.2 As shown in Figure, 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.



3.3 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.



#### 4. Experimental phenomena

After the program is successfully downloaded, the micro: bit dot matrix will display music pattern, and it will play music “dadaum”.