

## Python Basic Course2---Display built-in image

### Learning goals:

This lesson learns to display image on a micro:bit dot matrix by Python programming. For example: heart.

### Code:

```
from microbit import *
display.show(Image.HEART)
```

Below is a list of built-in images:

- Image.HEART
- Image.HEART\_SMALL
- Image.HAPPY
- Image.SMILE
- Image.SAD
- Image.CONFUSED
- Image.ANGRY
- Image.ASLEEP
- Image.SURPRISED
- Image.SILLY
- Image.FABULOUS
- Image.MEH
- Image.YES
- Image.NO
- Image.CLOCK12,
- Image.CLOCK11,
- Image.CLOCK10,
- Image.CLOCK9,
- Image.CLOCK8,
- Image.CLOCK7,
- Image.CLOCK6,
- Image.CLOCK5,
- Image.CLOCK4,
- Image.CLOCK3,
- Image.CLOCK2,
- Image.CLOCK1
- Image.ARROW\_N,
- Image.ARROW\_NE,
- Image.ARROW\_E,
- Image.ARROW\_SE,
- Image.ARROW\_S,
- Image.ARROW\_SW,
- Image.ARROW\_W,
- Image.ARROW\_NW

- Image.TRIANGLE
- Image.TRIANGLE\_LEFT
- Image.CHESSBOARD
- Image.DIAMOND
- Image.DIAMOND\_SMALL
- Image.SQUARE
- Image.SQUARE\_SMALL
- Image.RABBIT
- Image.COW
- Image.MUSIC\_CROTCHET
- Image.MUSIC\_QUAVER
- Image.MUSIC\_QUAVERS
- Image.PITCHFORK
- Image.XMAS
- Image.PACMAN
- Image.TARGET
- Image.TSHIRT
- Image.ROLLERSKATE
- Image.DUCK
- Image.HOUSE
- Image.TORTOISE
- Image.BUTTERFLY
- Image.STICKFIGURE
- Image.GHOST
- Image.SWORD
- Image.GIRAFFE
- Image.SKULL
- Image.UMBRELLA
- Image.SNAKE
- Image.ALL\_CLOCKS
- Image.ALL\_ARROWS

#### **Programming and downloading:**

1. You should open the Mu software, and enter the code in the edit window, , as shown in Figure 2-1.

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

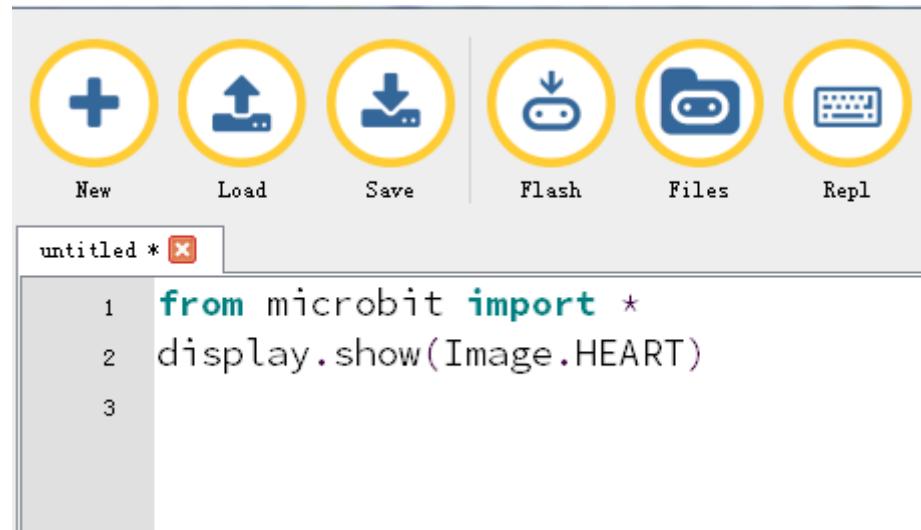


Figure 2-1

2. As shown in Figure 2-2, 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.

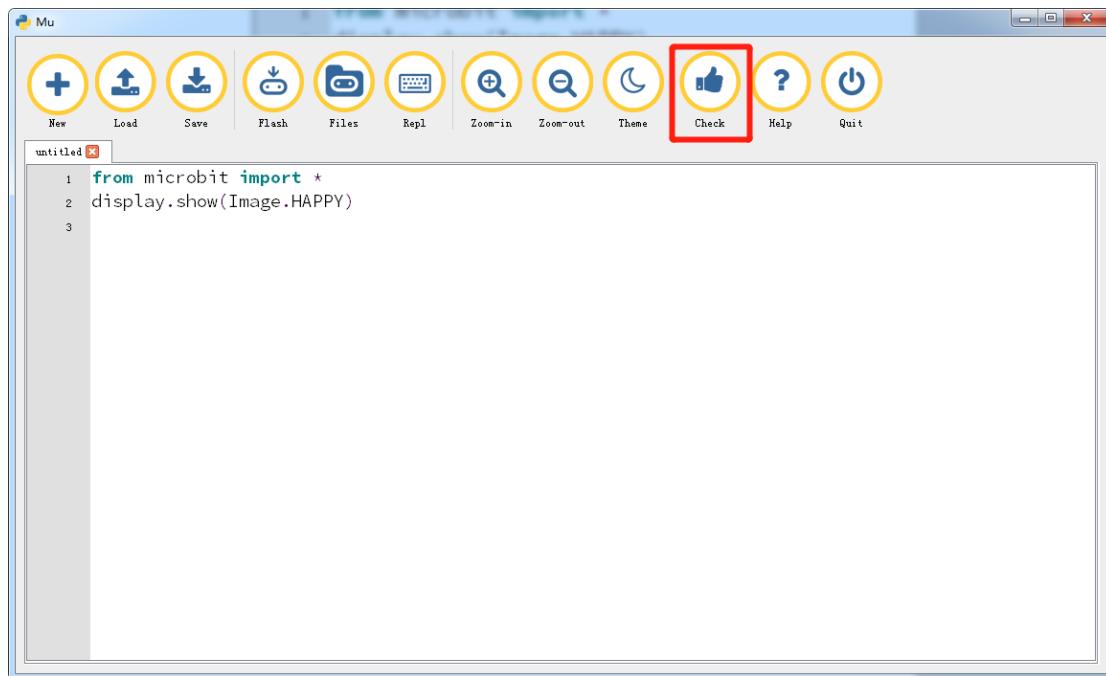


Figure 2-2

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 2-3.

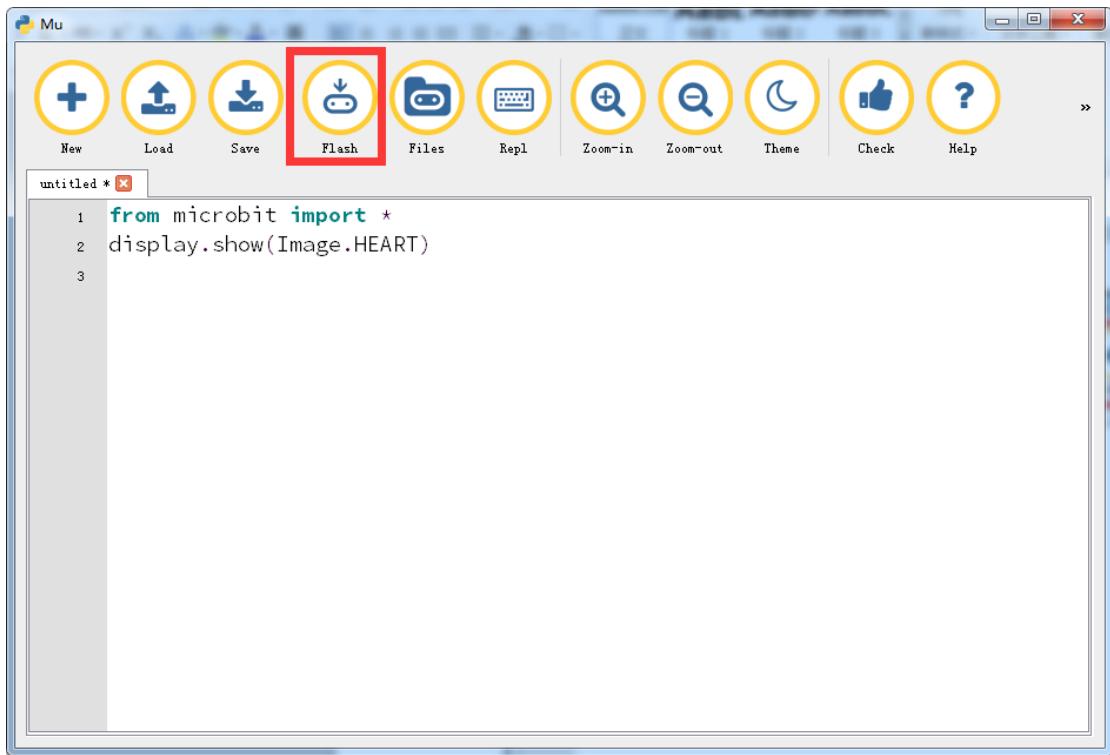


Figure 2-3

4. After the download is successful, you can see that a heart on the micro:bit dot matrix .as shown in Figure 2-4.

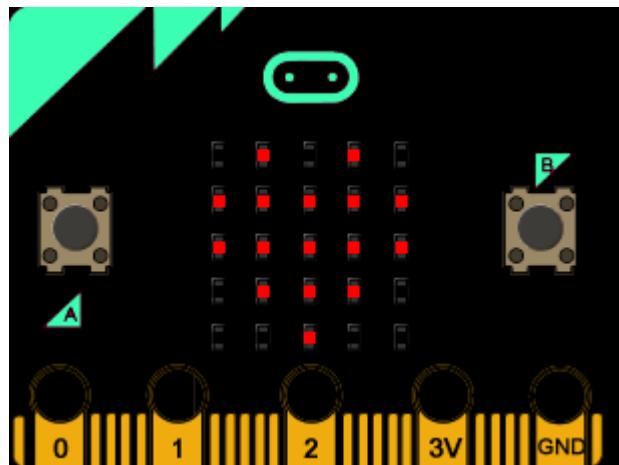


Figure 2-4.