1.Music watch

1. Learning goals

In this lesson, we will learn to use micro:bit and wrist:bit make a music watch.
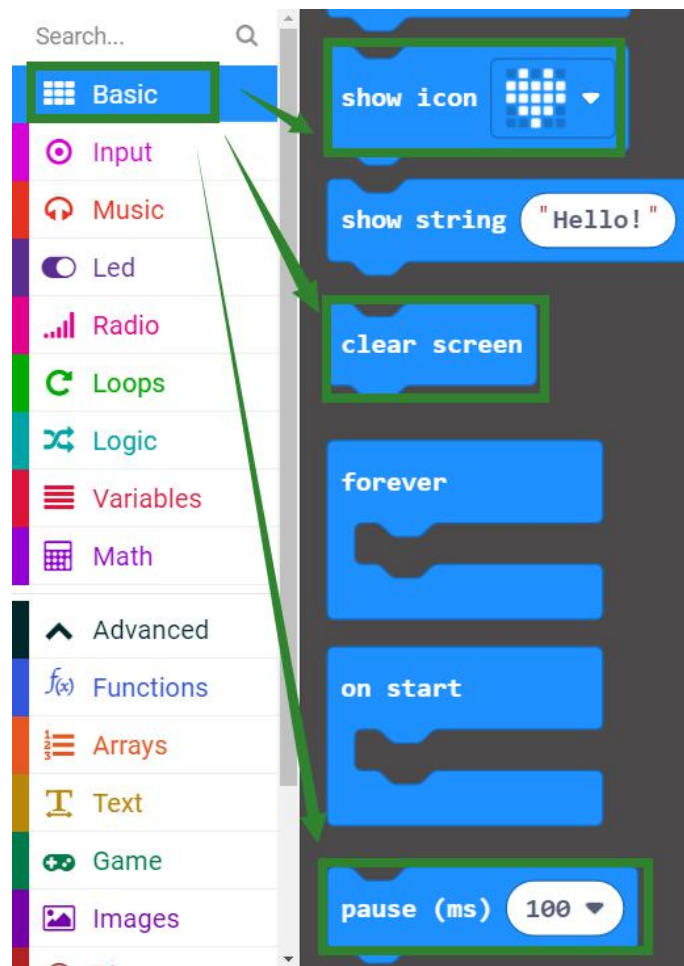
2. Programming method

Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: http://microbit.org/ to enter the programming interface to program.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, you can program.

3. Looking for blocks

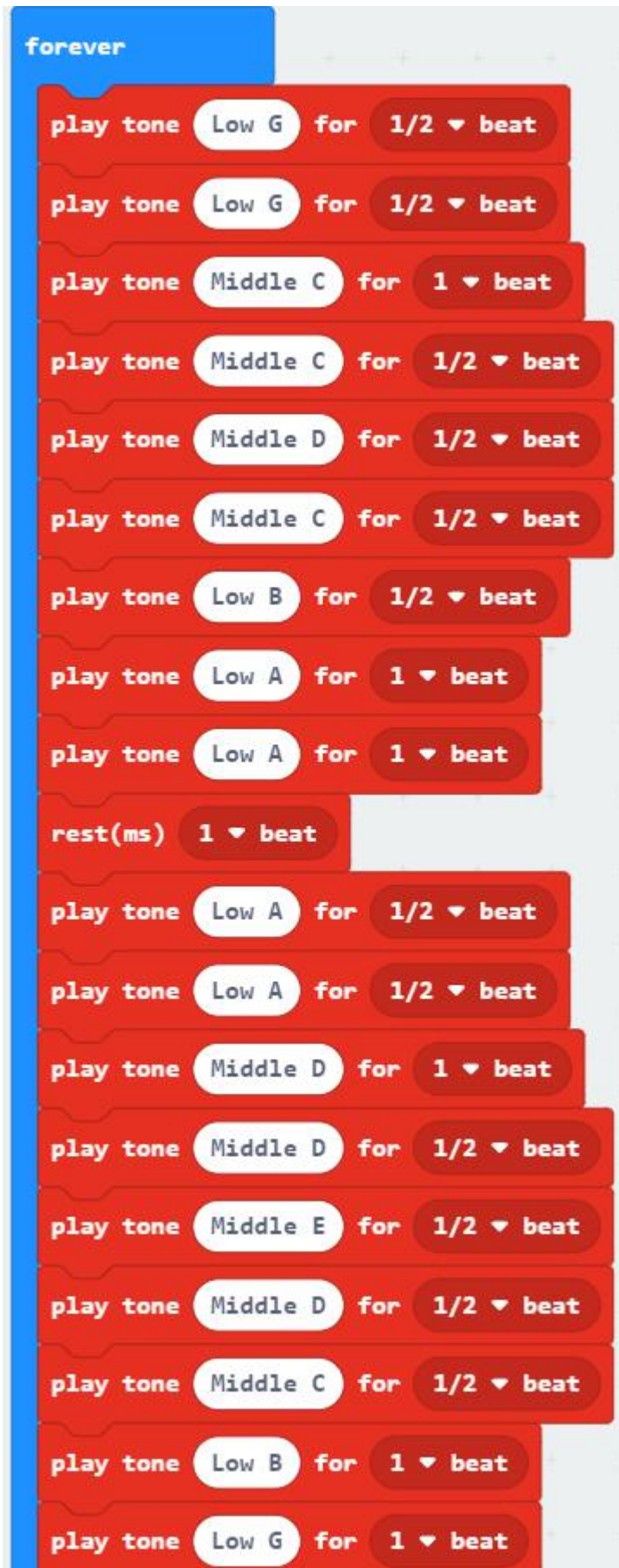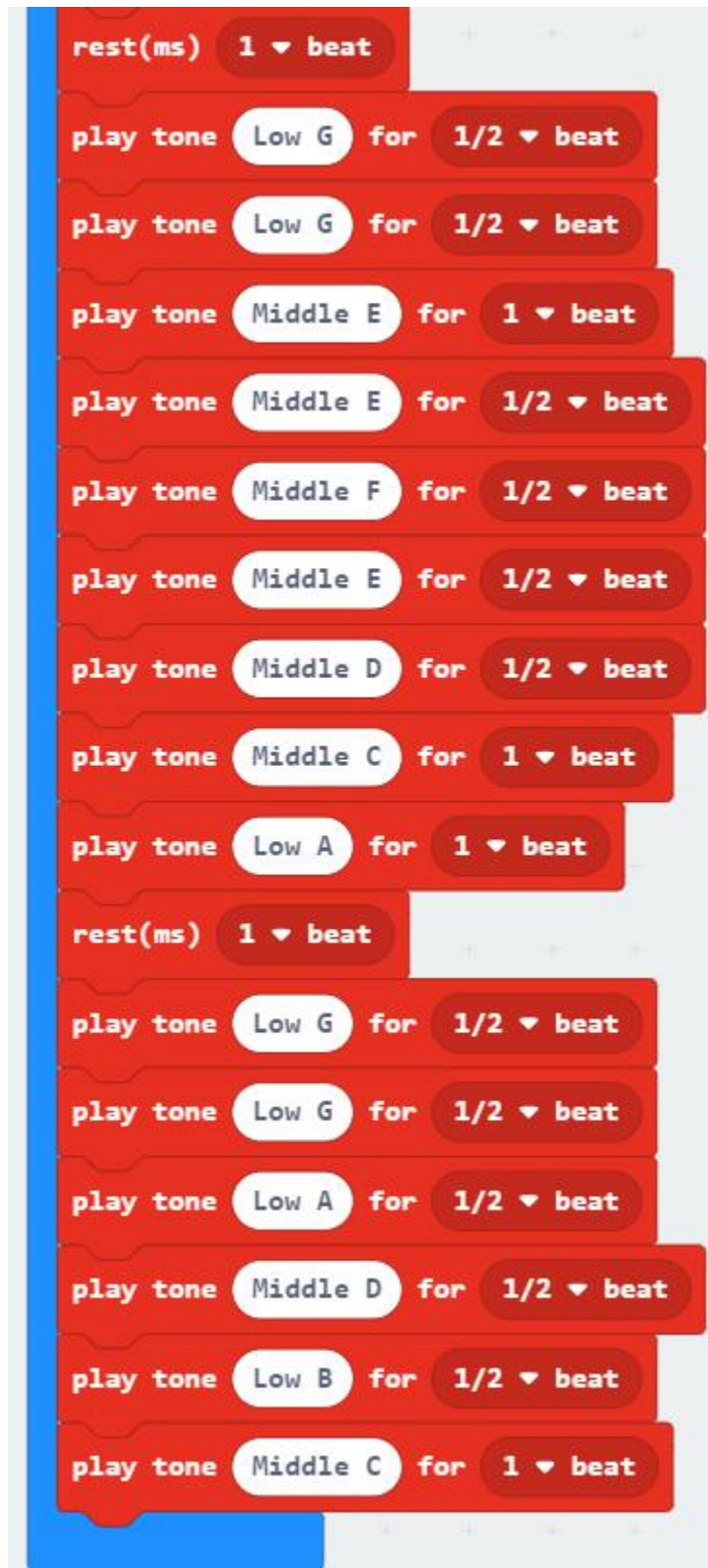The following is the location of the building blocks required for this programming.

4. Combine block

The summary program is shown below.

```
forever
    play tone  Low G     for  1/2 ▼ beat
    play tone  Low G     for  1/2 ▼ beat
    play tone  Middle C  for  1 ▼ beat
    play tone  Middle C  for  1/2 ▼ beat
    play tone  Middle D  for  1/2 ▼ beat
    play tone  Middle C  for  1/2 ▼ beat
    play tone  Low B     for  1/2 ▼ beat
    play tone  Low A     for  1 ▼ beat
    play tone  Low A     for  1 ▼ beat
    rest(ms)   1 ▼ beat
    play tone  Low A     for  1/2 ▼ beat
    play tone  Low A     for  1/2 ▼ beat
    play tone  Middle D  for  1 ▼ beat
    play tone  Middle D  for  1/2 ▼ beat
    play tone  Middle E  for  1/2 ▼ beat
    play tone  Middle D  for  1/2 ▼ beat
    play tone  Middle C  for  1/2 ▼ beat
    play tone  Low B     for  1 ▼ beat
    play tone  Low G     for  1 ▼ beat
```

About the tone:

I am playing the song "Merry-Christmas" here, you can check the music notation of the song on the Internet, and then write the corresponding program according to the music notation.

5. Experimental phenomena

After the program is successfully downloaded, the micro: bit dot matrix will display big heart and small heart pattern.