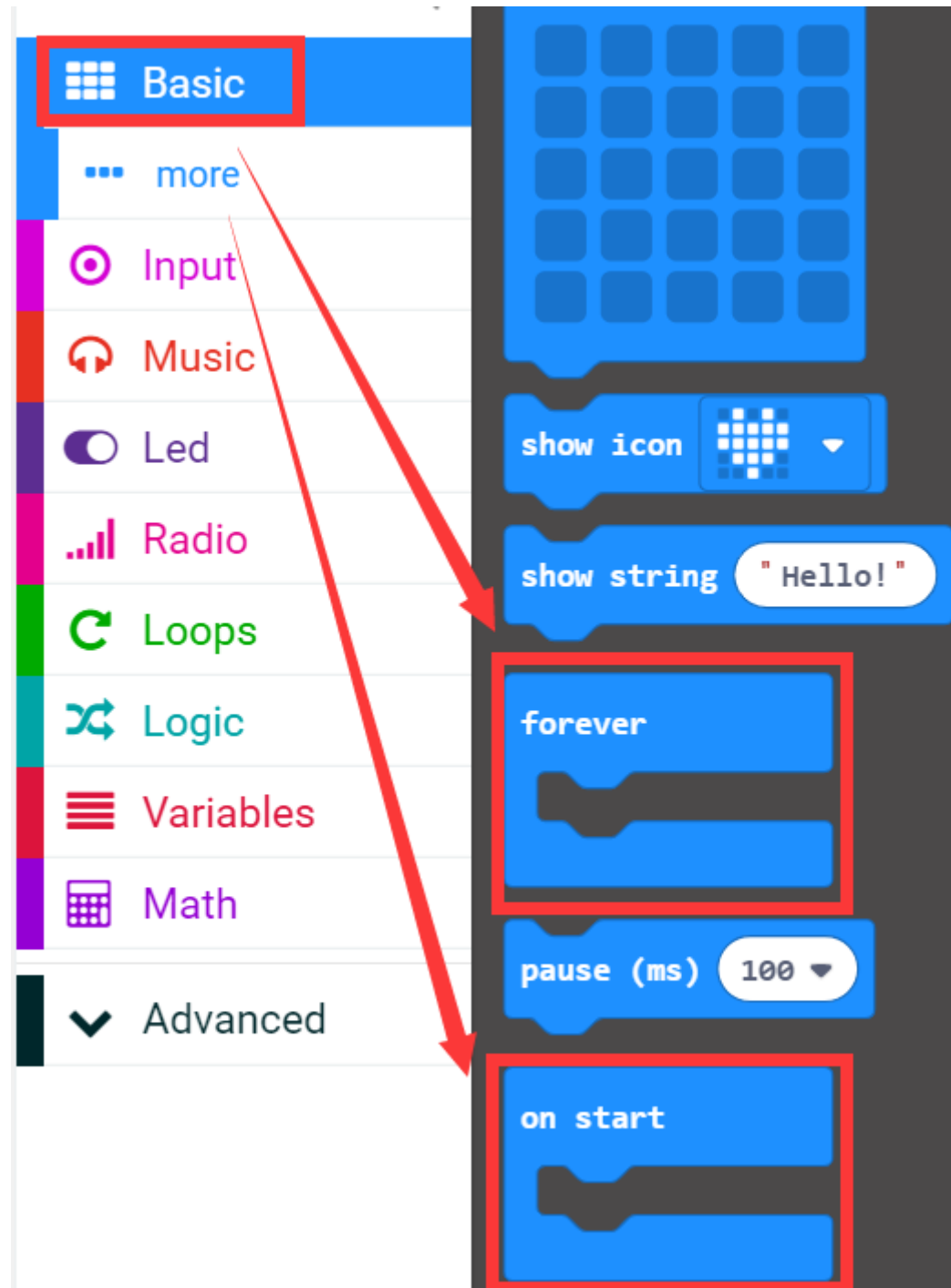


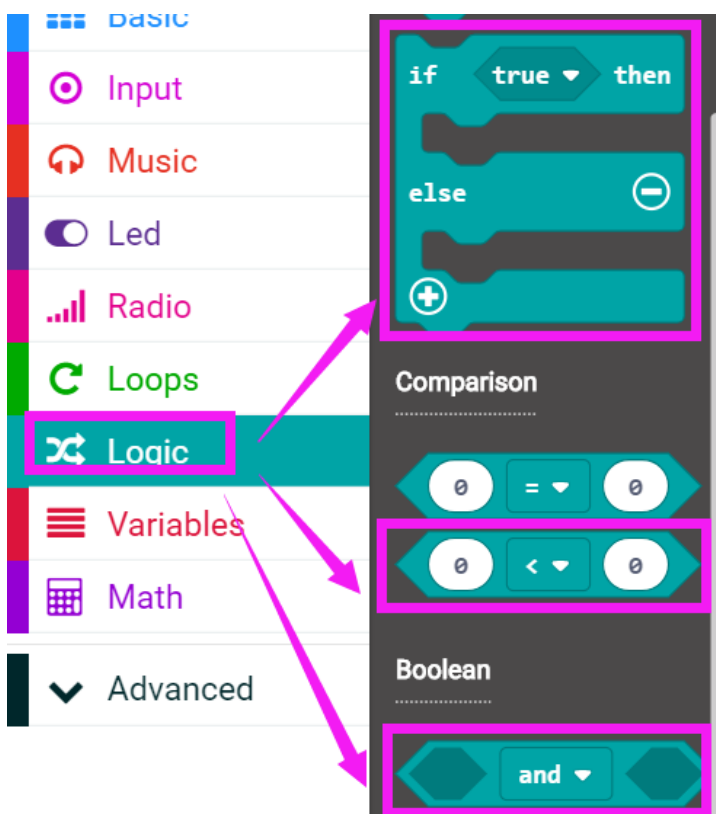
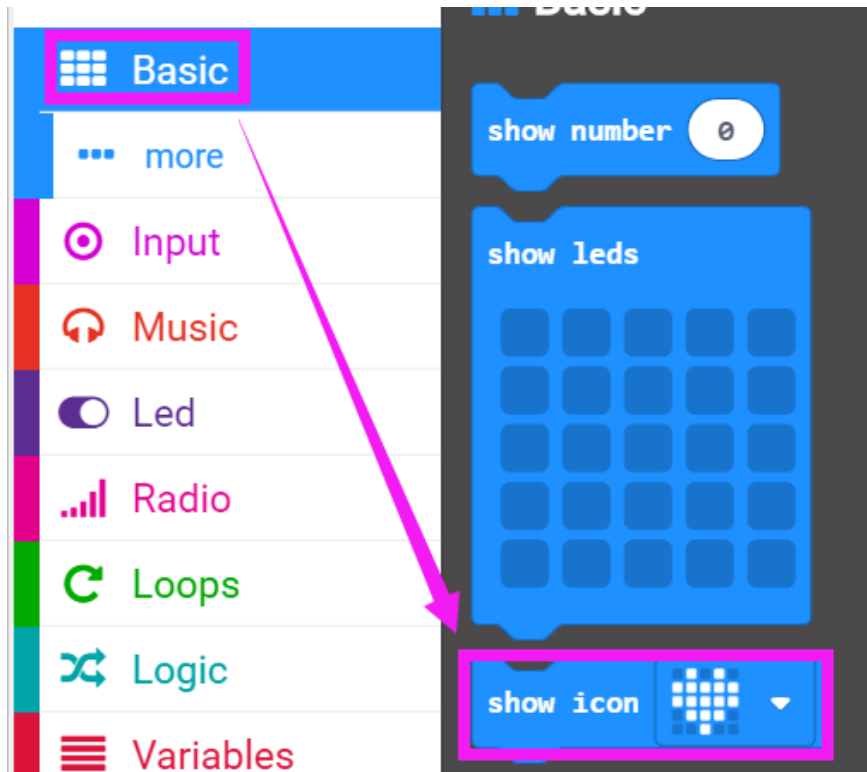
Lesson 3-Playing music at the tip of the pen

1.Learning goals:

This lesson learns to use graphical programming to playing music at the tip of the alligator clip.

2.Search for blocks:





How create a new variable:

The screenshot shows the Yahboom IDE interface. On the left, a vertical menu lists various components: Basic, Input, Music, Led, Radio, Loops, Logic, Variables, and Math. The 'Variables' option is highlighted with a red box and labeled with a red '1'. A green arrow points from this box to a 'Variables' panel on the right. This panel has a dark background and a title bar with a hamburger menu icon and the word 'Variables'. Inside the panel, a button labeled 'Make a Variable...' is highlighted with a green box. Below the main interface, the text 'New variable name:' is followed by a text input field containing the word 'item', which is highlighted with a red box and labeled with a red '2'. At the bottom, there are three buttons: 'Ok' with a checkmark, 'Cancel', and a close button with an 'x'. The 'Ok' button is highlighted with a red box and labeled with a red '3'.

Search...

Basic

Input

Music

Led

Radio

Loops

Logic

Variables

Math

Variables

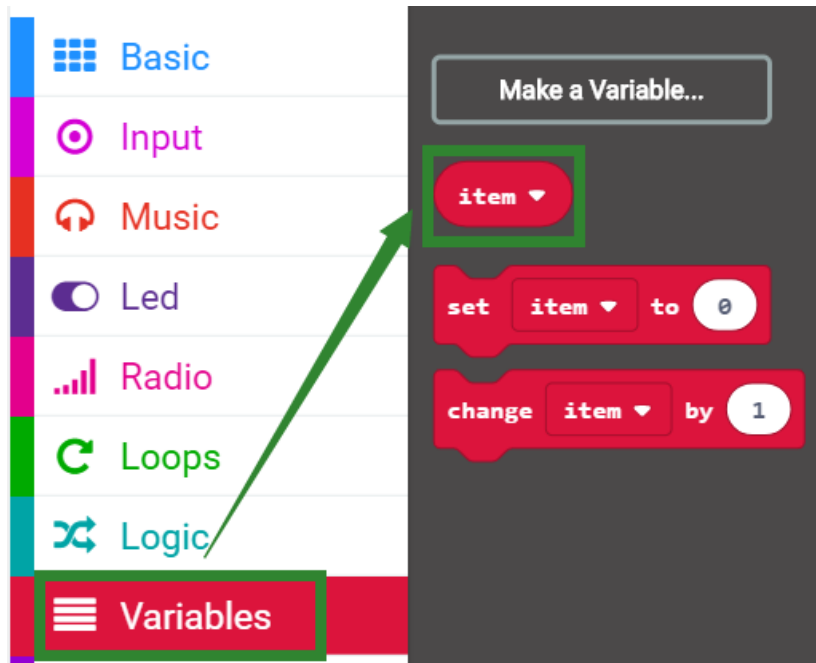
Make a Variable...

New variable name:

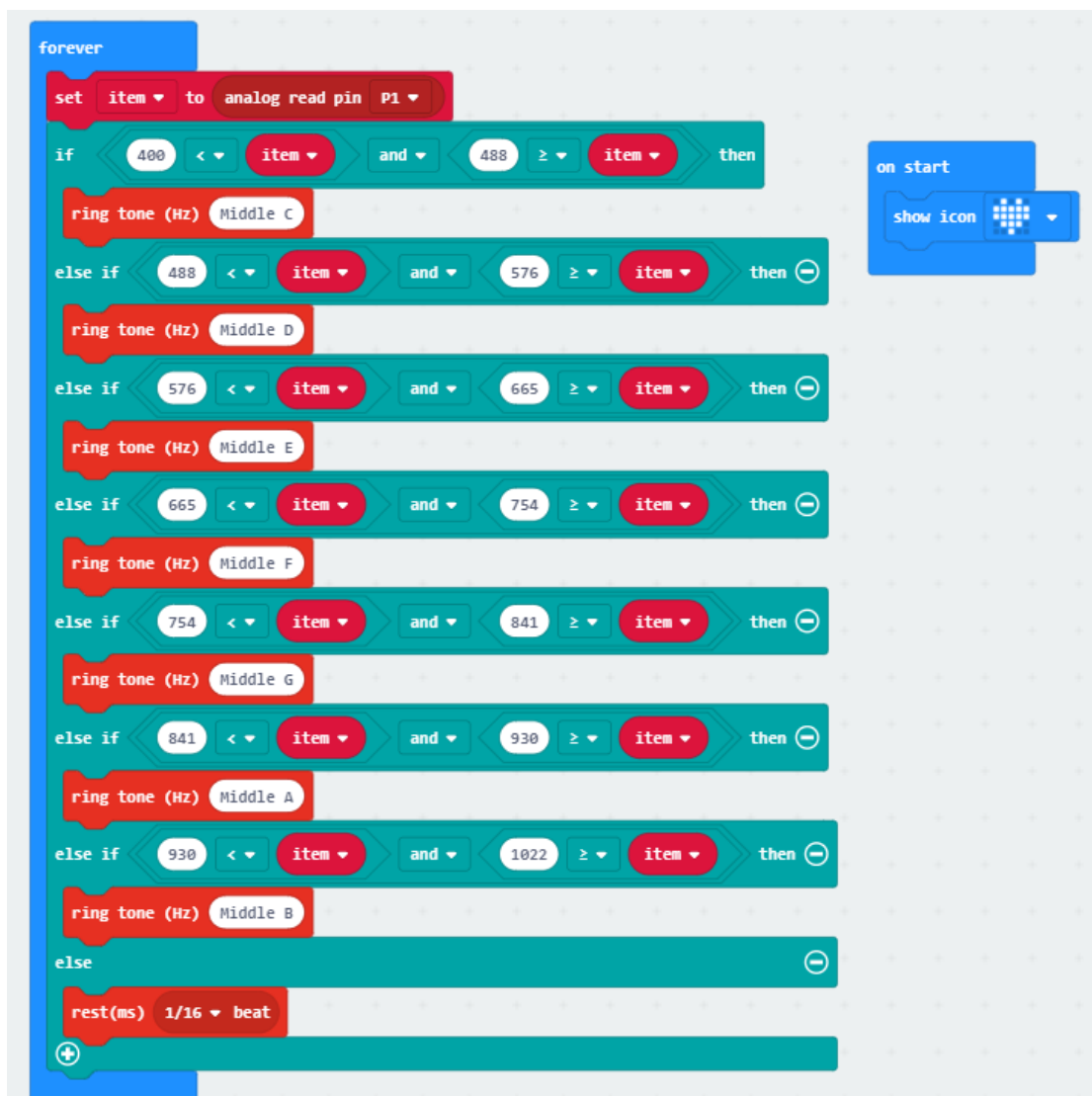
item

Ok ✓

Cancel x

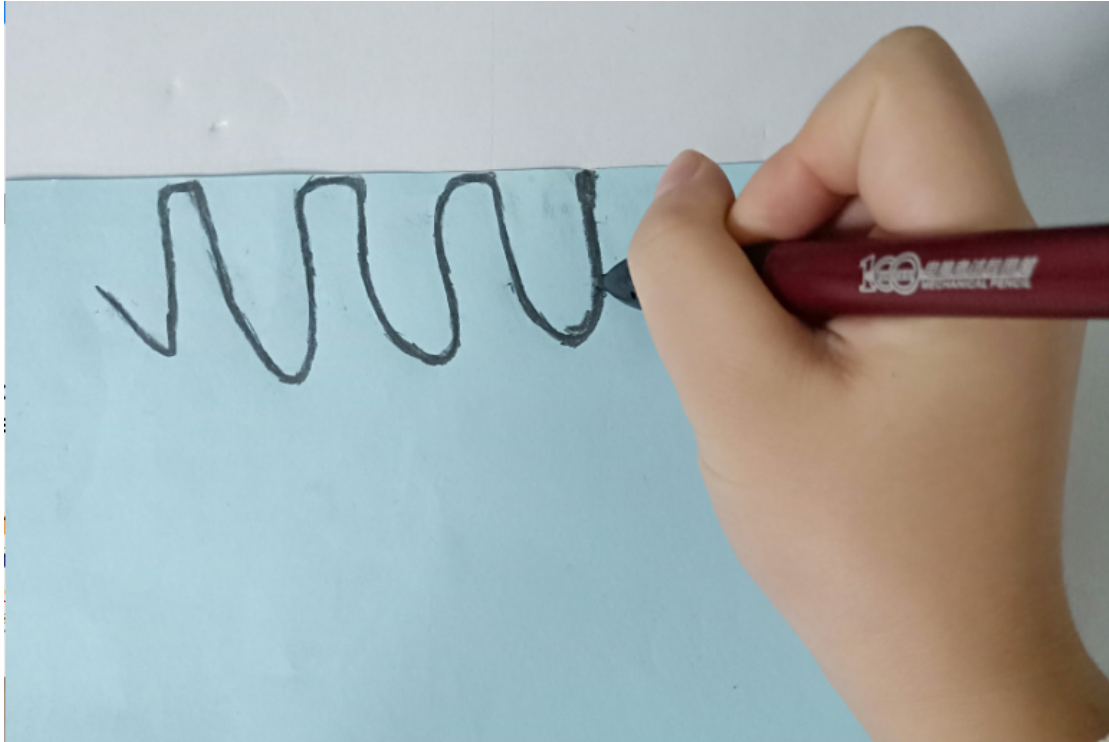


3.Combine blocks:

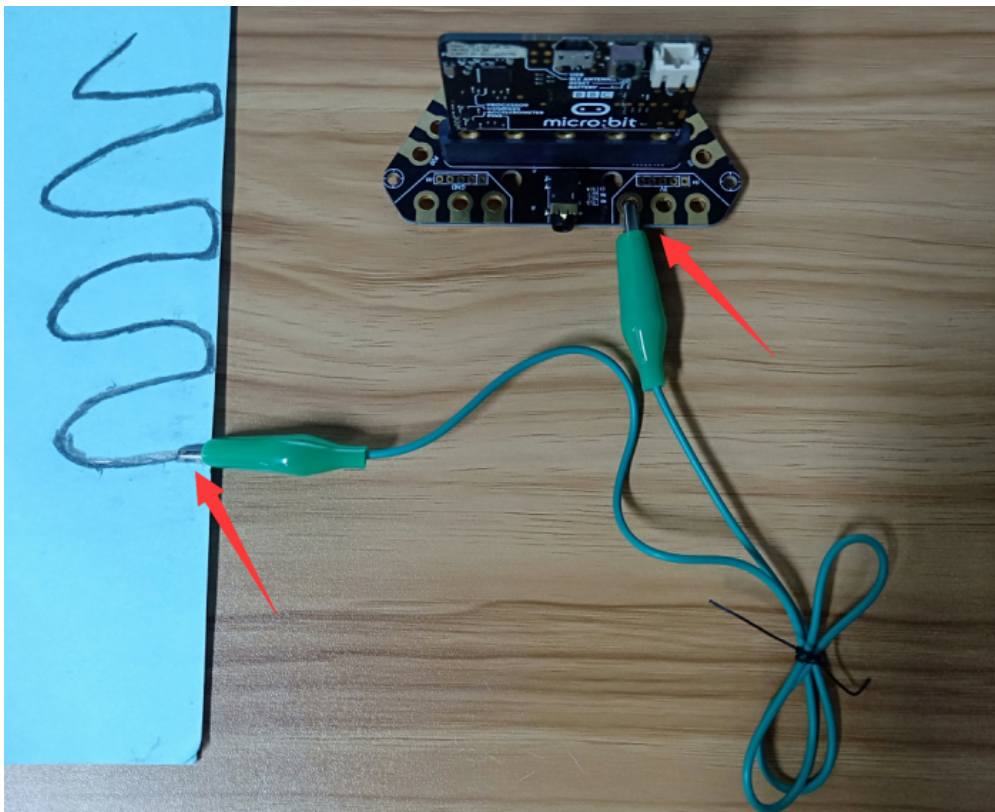


4.Download programming

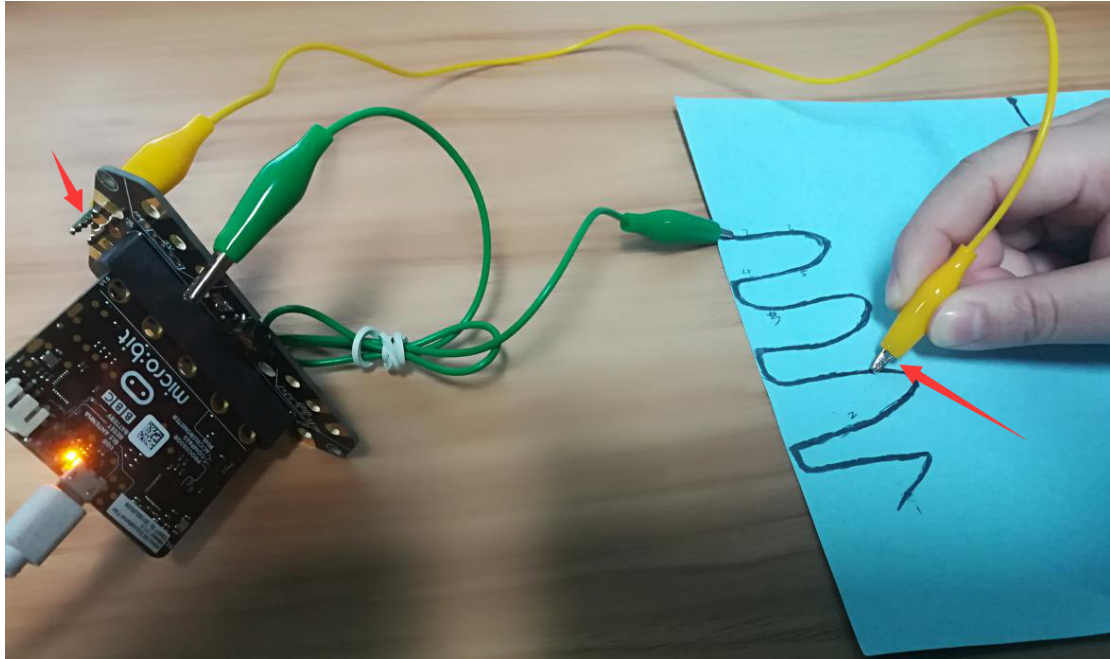
After the program is downloaded. First, we need to use a 2B pencil to draw a thick line of about 20cm on the paper. As shown in the figure below.



Then, we need to use one end of the alligator clip to clamp one end of the thick line on the paper, and the other end to the 3V of the micro:bit gold finger. As shown in the figure below.



Next, we need to use one end of the alligator clip to clamp 3v on the micro:bit, and the other end to the 3V of the micro:bit gold finger. The other end click thick line on the paper by hand. As shown in the figure below.



When we click different location ,we can listen that buzzer play different tones.

Note:

When taking the alligator clip to touch the thick line, do not touch the metal part of the alligator clip, you should hold the insulation.

