

Control Magic wheel-car music playing

Goal

In this lesson, we will learn to control the buzzer of the expansion board of Magic wheel car to play music in the car

Programming method

(1) online programming: connect micro:bi with the computer through the USB cable, open my computer, find the MICROBIT memory disk and open it, double-click ICROBIT.HTM, and open the browser programming page. After creating a new project, click advanced, click expand, enter the extension package address <https://github.com/emakefun/pxt-magicbit.git> and press enter or search, add the Microbit extension package, you can start programming control car buzzer.

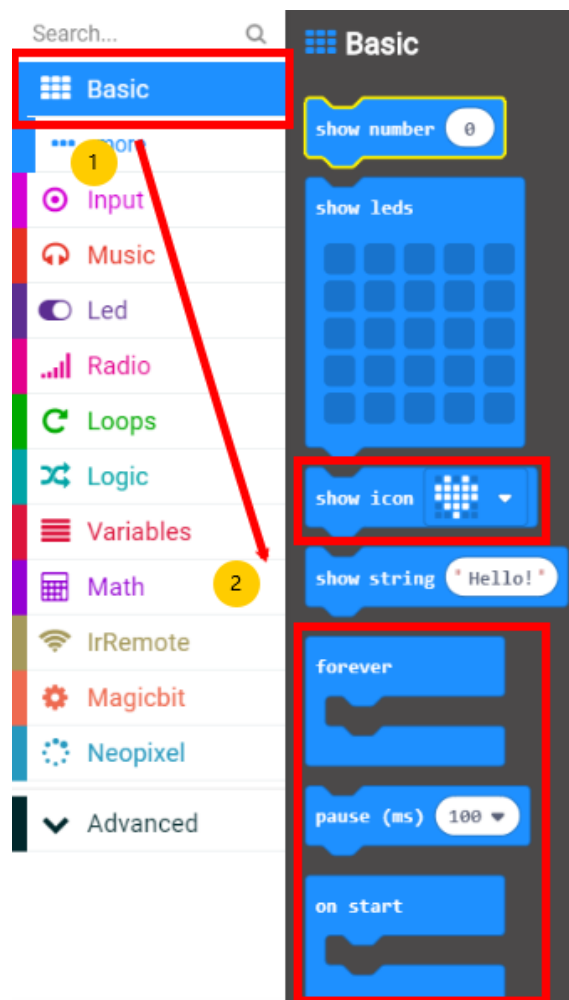
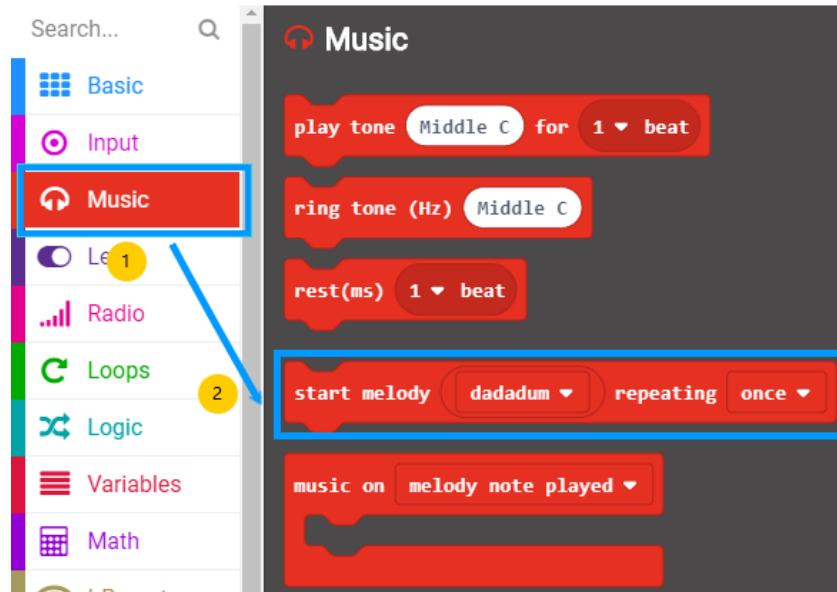
(2) offline programming: open the offline programming software, enter the programming interface, create a new project, click advanced, click expand, enter the address <https://github.com/emakefun/pxt-magicbit.git> of the extension package, press enter or search, add the Microbit extension package, and then you can start programming control the car buzzer.

vocalism principle

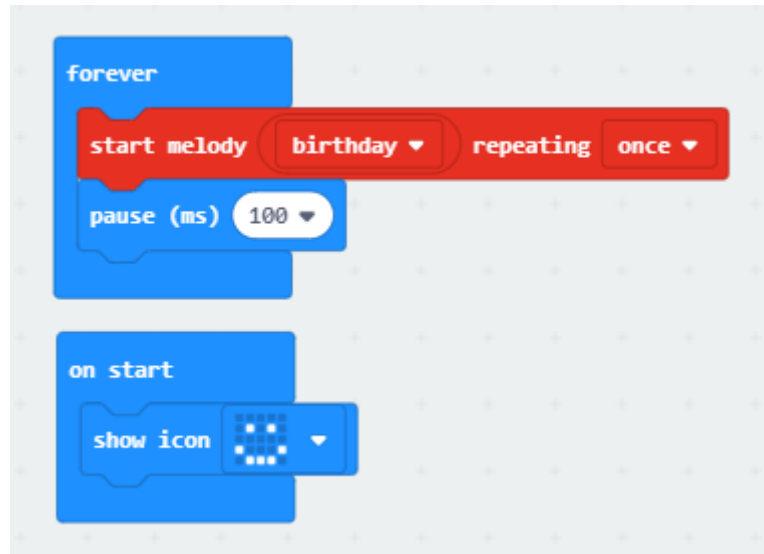
Passive buzzer is based on the principle of piezoelectric effect to sound, when the voltage acting on piezoelectric material, with the change of voltage and frequency will produce mechanical deformation, so as to produce sound.

Block programming

- 1 Location of building blocks required



2 Final program building block combination



The experimental results

After downloading the program to the microbit motherboard of the Magic wheatwheel car, open the main switch of the expansion board, microbit displays a smiley face, and the buzzer of Magic_Car plays birthday song.