Control Magic:car musicplay

Goal

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

Programming method

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

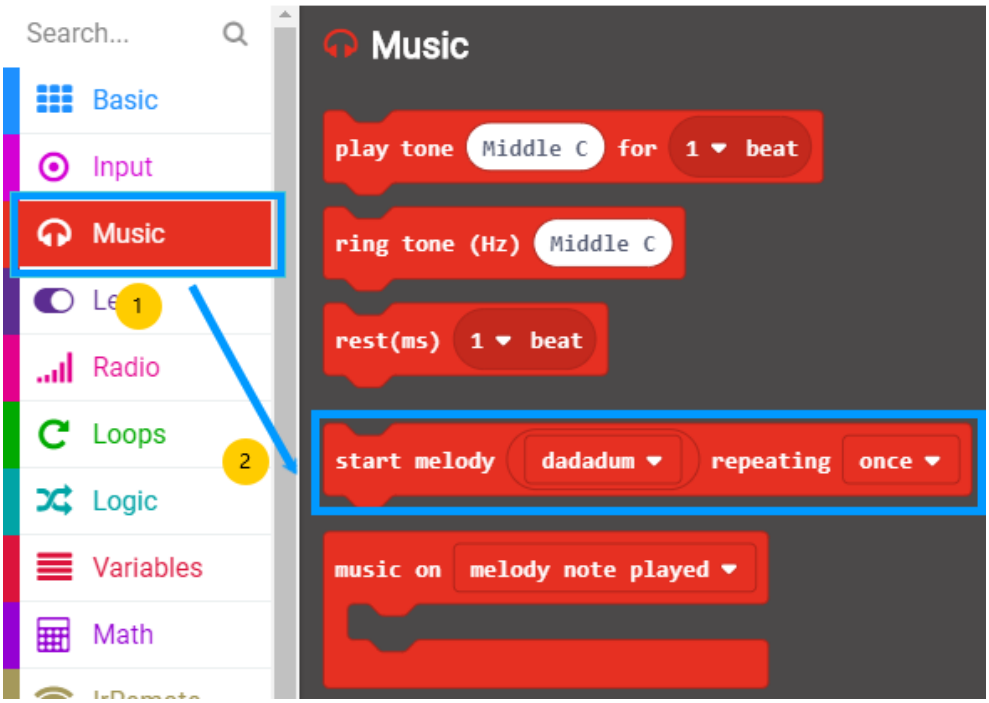
(2) offline programming: open the offline programming software, enter the programming interface, create a new project, click advanced, click expand, enter the address https://github.com/emakefun/pxt-magicbit.git of the extension package, press enter or search, add the Microbit extension package, and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

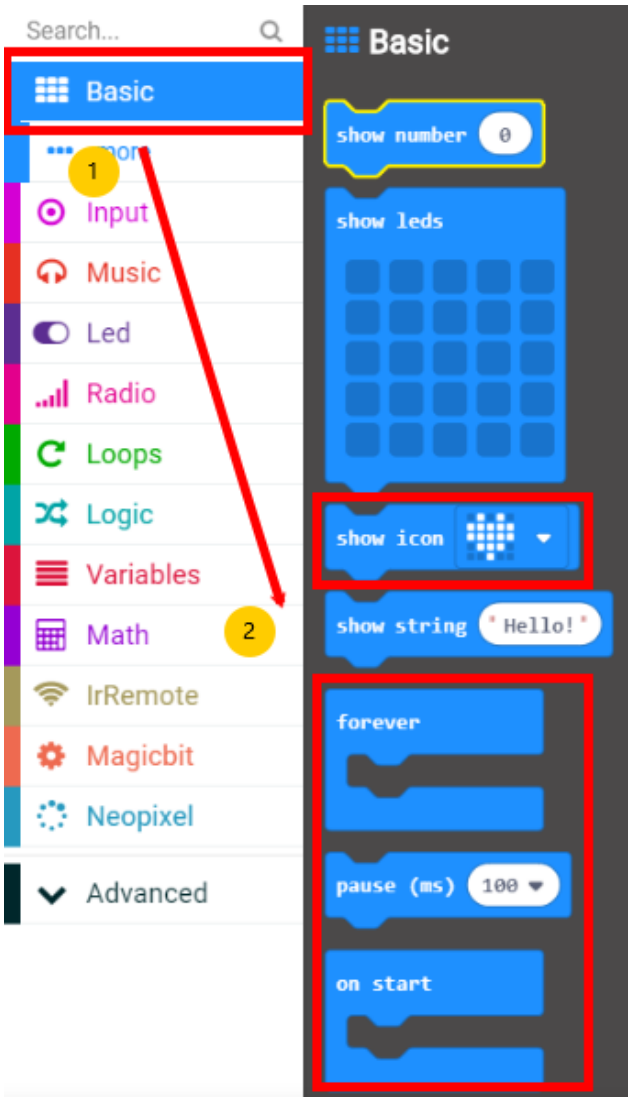
Vocalism principle

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.

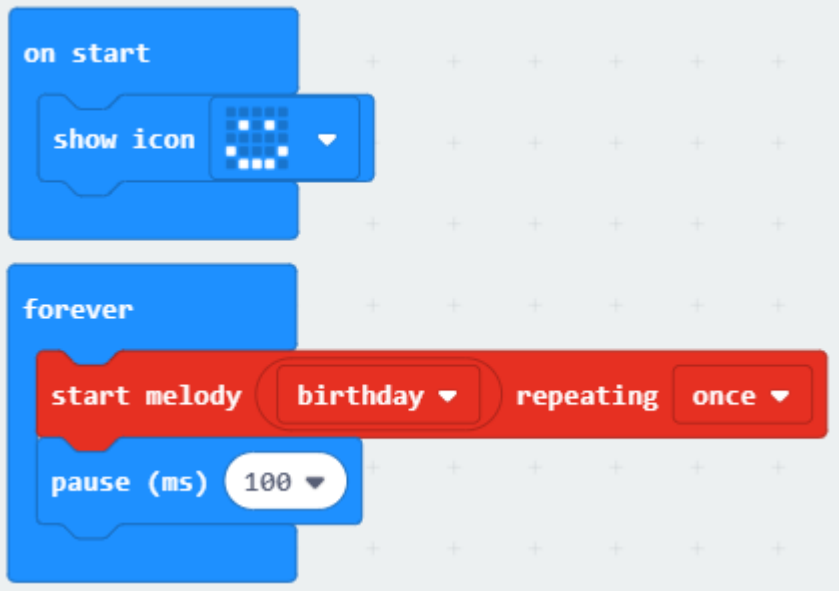
Block programming

1、 Location of building blocks required


Search...
Basic
Input
Music
Le
Radio
Loops
Logic
Variables
Math
1
2
Music
play tone Middle C for 1 beat
ring tone (Hz) Middle C
rest(ms) 1 beat
start melody dadadum repeating once
music on melody note played


Search...
Basic
Input
Music
Led
Radio
Loops
Logic
Variables
Math
IrRemote
Magicbit
Neopixel
Advanced
1
2
Basic
show number 0
show leds
show icon
show string "Hello!"
forever
pause (ms) 100
on start

3、Final program building block combination



The experimental results

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