11. Case 10: Speed Adjustable Car
11.1. Introduction

This is an adjustable speed car, we can control the speed of the it through the potentiometer installed at the back side.

11.2. Quick Start
Materials Required

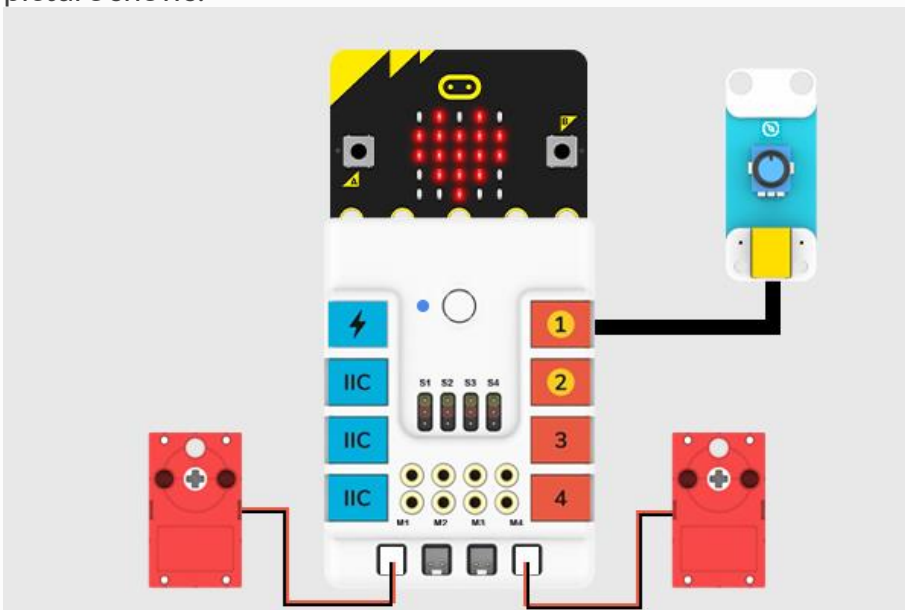Nezha expansion board × 1

micro:bit × 1

Potentiometer × 1

Motors × 2

RJ11 wires × 1

Connection Diagram

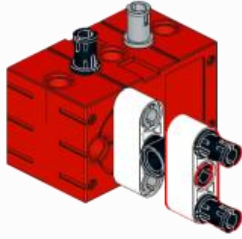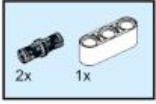Connect the potentiometer to J1, the two motors to M1&M4 on the Nezha expansion board as the picture shows.
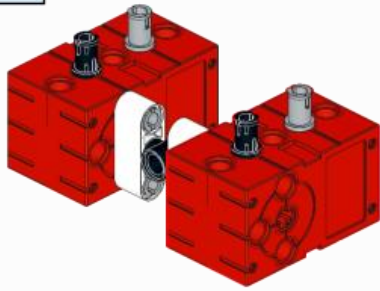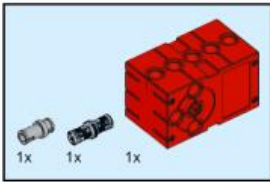

Assembly Video

Video reference: https://youtu.be/bVa5-wrcoeA

Assembly Steps

26x
2780, 11

2x
32184, 11

1x
87082, 11

2x
55978, 11

4x
32002, 86

2x
4519, 86

1x
92911, 86

2x
14720, 86

2x
56145, 86

2x
64179, 86

2x
32523, 1

2x
32449, 1

1x
32524, 1

1x

1x

2x

1x

2x
4265c, 3

2x
32524, 3

2x
40490, 3

6x
43093, 7

1x
99948, 67

1

3x   1x   1x

2

1x   1x

3

2x 1x

4

1x 1x 1x

5

4x 2x

6

2x   2x

7

2x   1x

8

2x   2x

9

2x   1x

10

2x   1x   1x

11

2x   2x

12

2x   2x

13

2x

14

1x

15

16

17
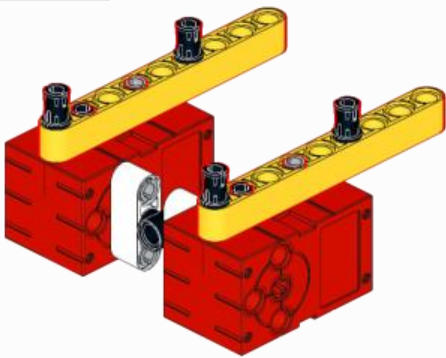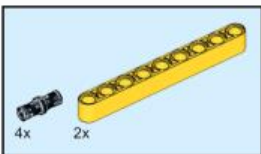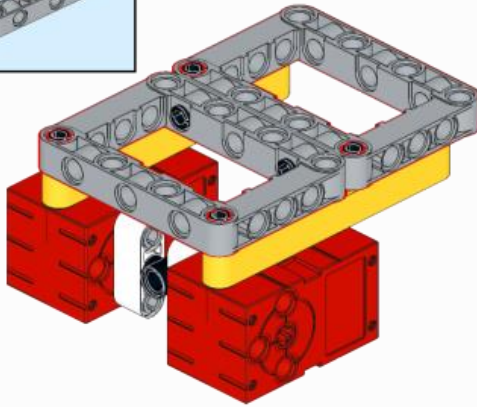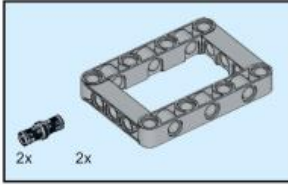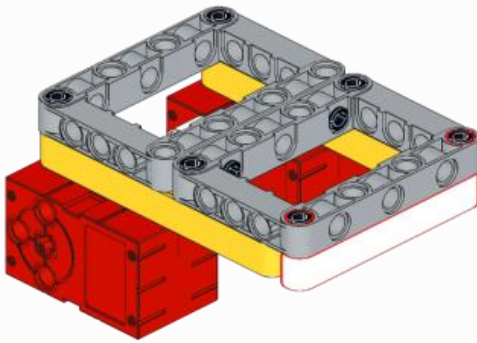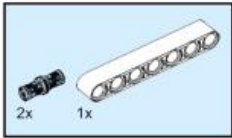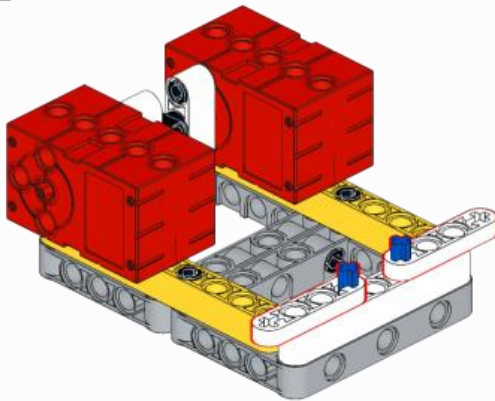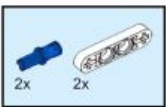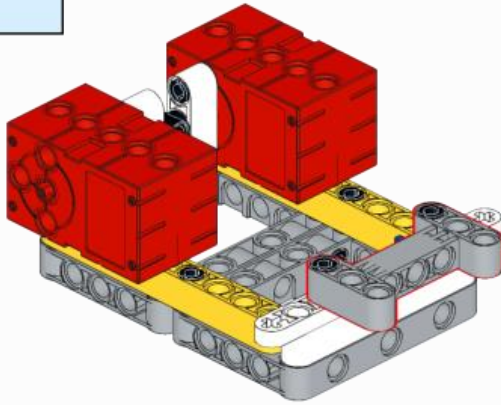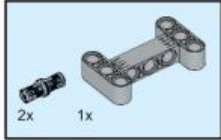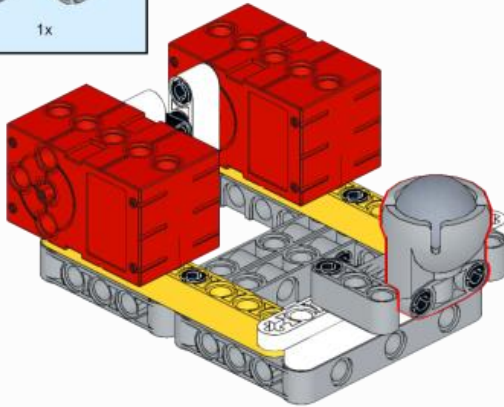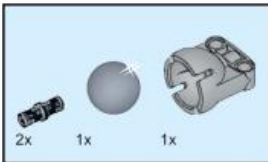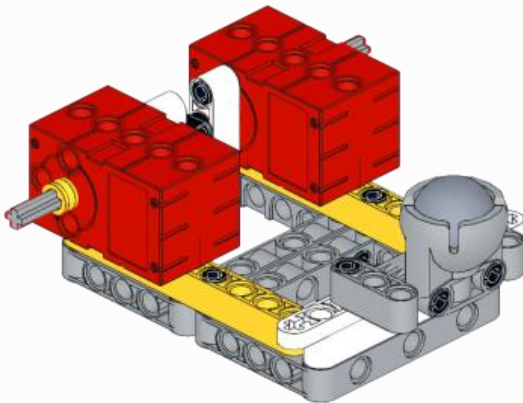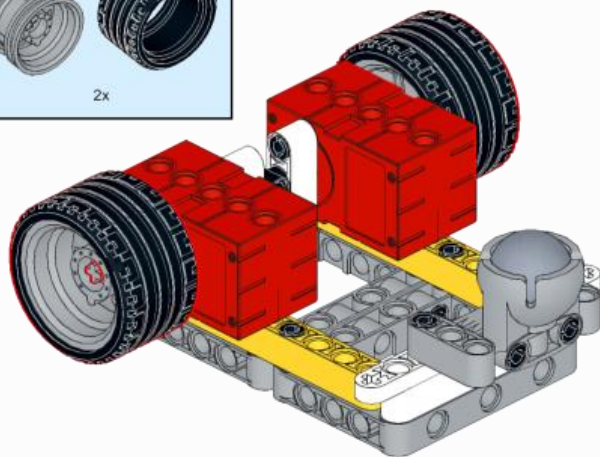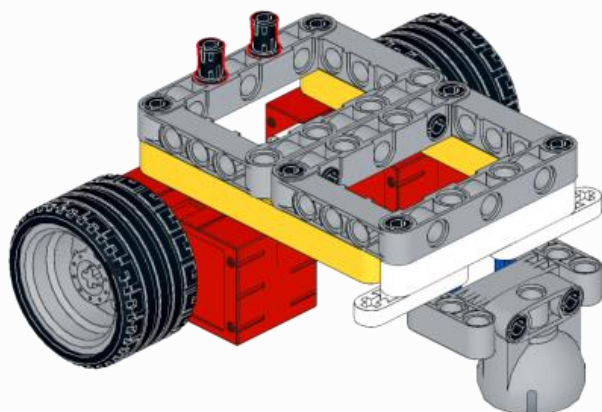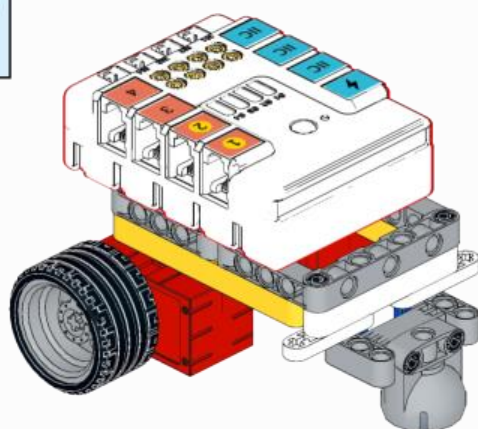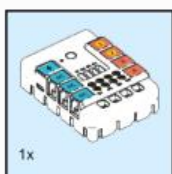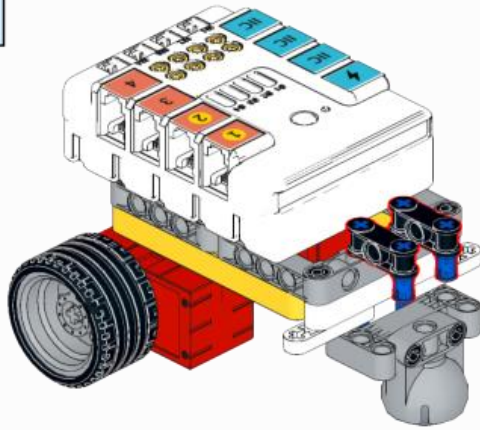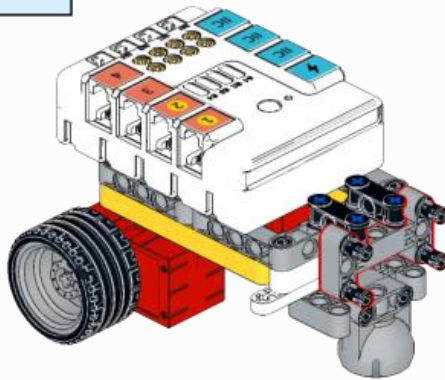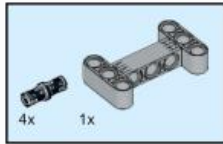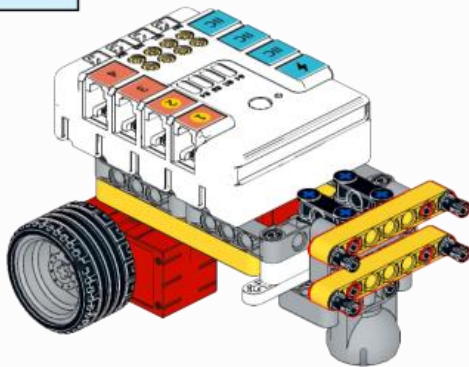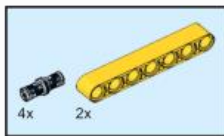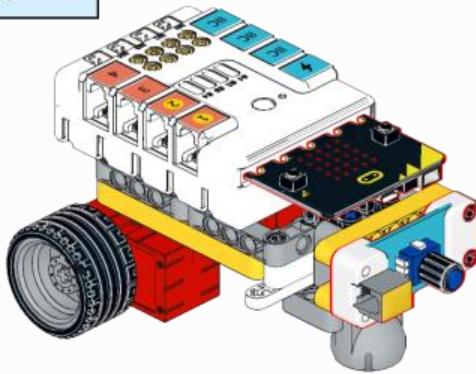
11.3. MakeCode Programming
Step 1

Click "Advanced" in the MakeCode to see more choices.

For programming, we need to add a package: click "Extensions" at the bottom of the MakeCode drawer and search with "PlanetX" in the dialogue box to download it.

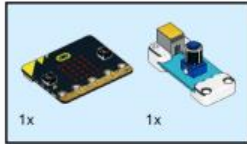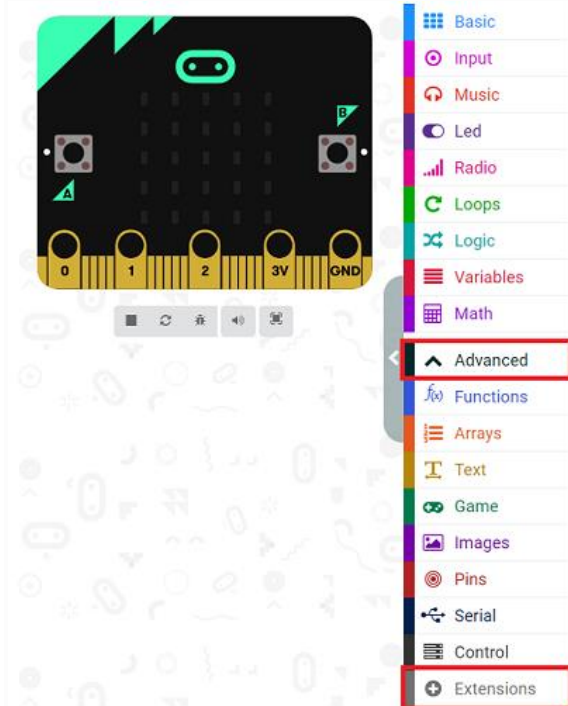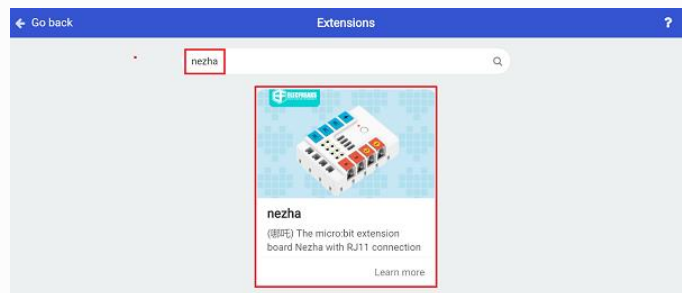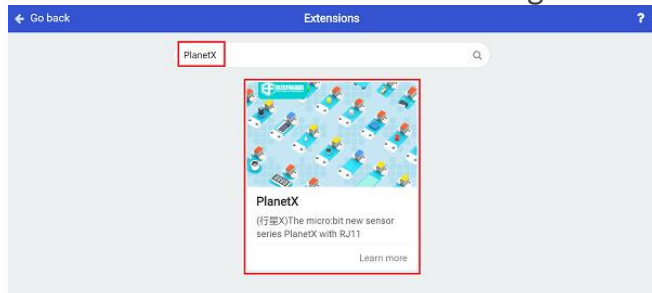For programming, we need to add a package: click "Extensions" at the bottom of the MakeCode drawer and search with "nezha" in the dialogue box to download it.

Notice: If you met a tip indicating that some codebases would be deleted due to incompatibility, you may continue as the tips say or create a new project in the menu.

Step 2
Code as below:

Reference

Link：https://makecode.microbit.org/_cTDgmegXA5ip

You may also download it directly below:

Result

The speed of the car could be adjusted by the potentiometer.