

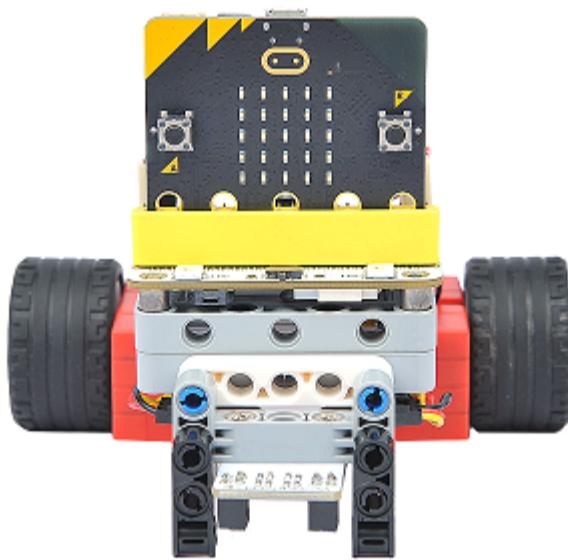
Case 02: Line-following Cars

Contents

- [4.1. Purpose](#)
- [4.2. Link](#)
- [4.3. Materials Required](#)
- [4.4. Bricks build-up](#)
- [4.5. Installation Methods of Hardwares](#)
- [4.6. Hardware Connection](#)
- [4.7. Software Platform](#)
- [4.8. Coding](#)

4.1. Purpose

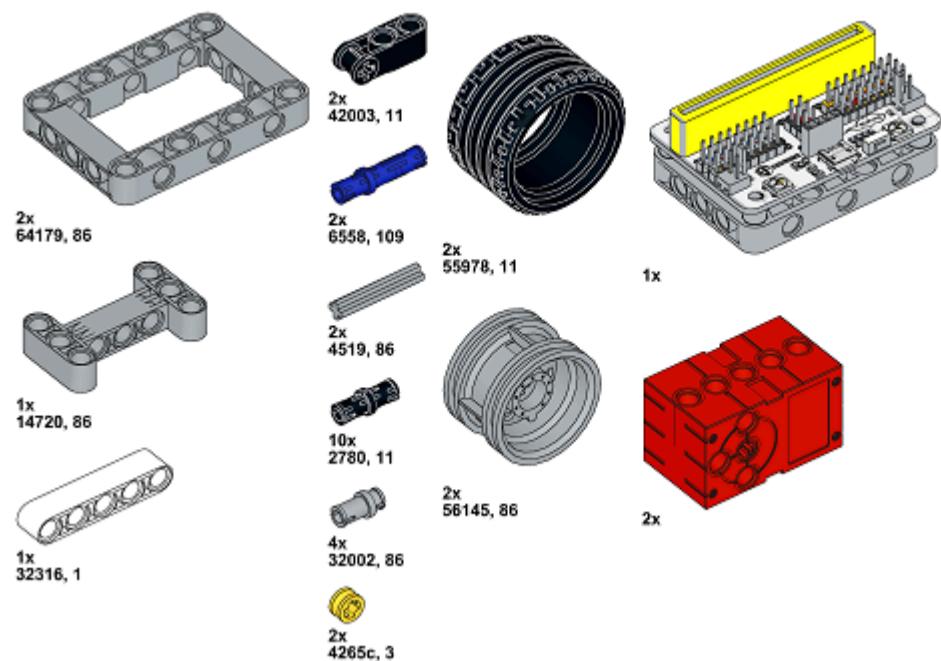
To make a line following car.



4.2. Link

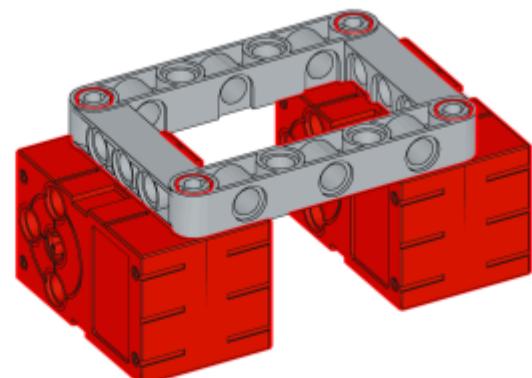
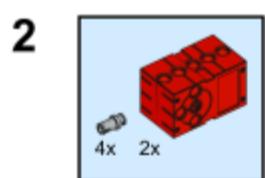
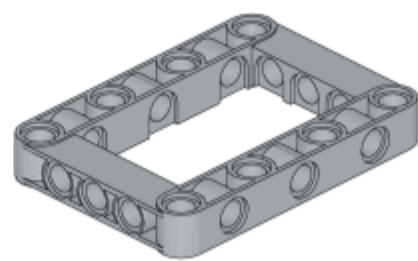
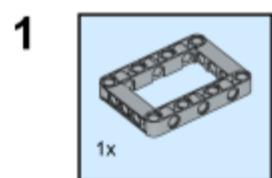
[micro:bit Wonder Building Kit](#)

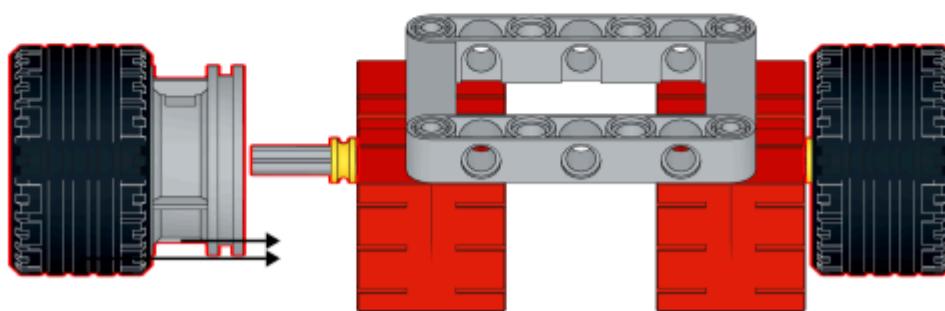
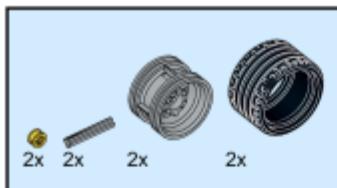
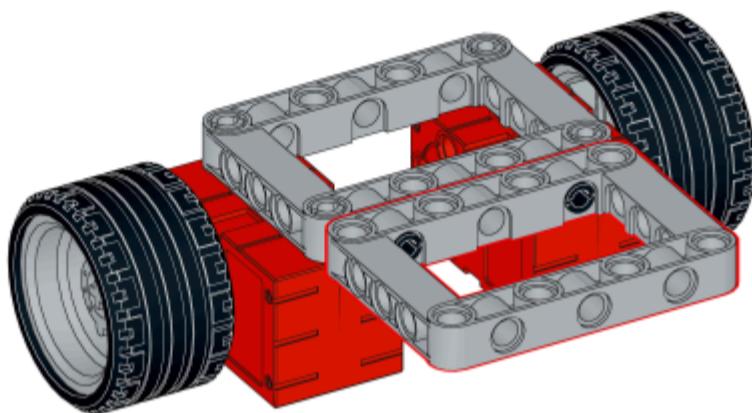
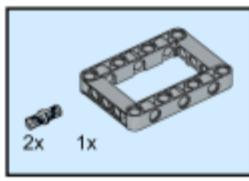
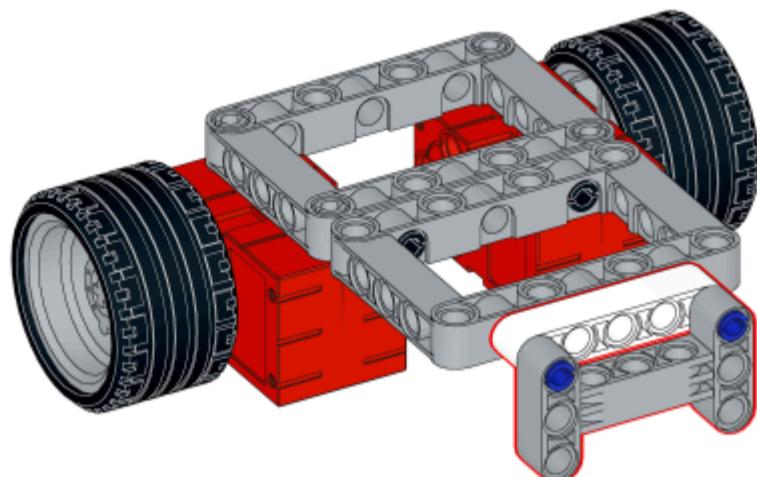
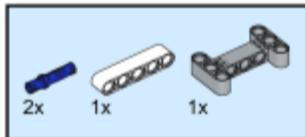
4.3. Materials Required

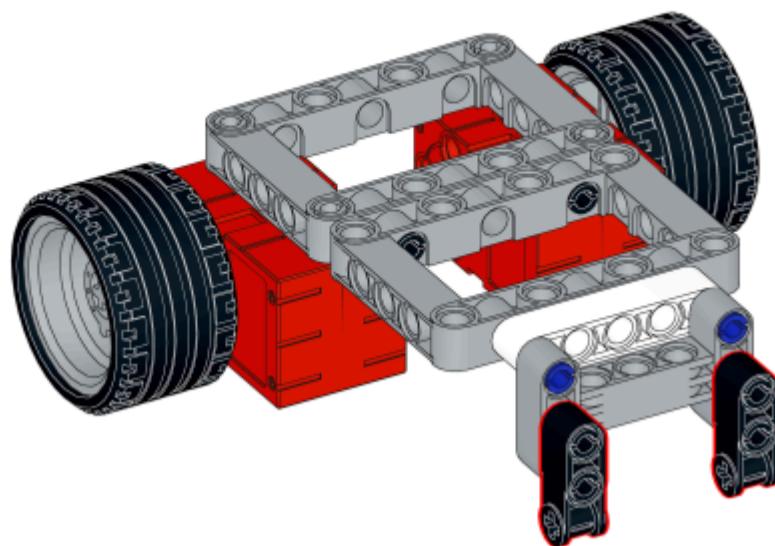
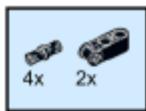
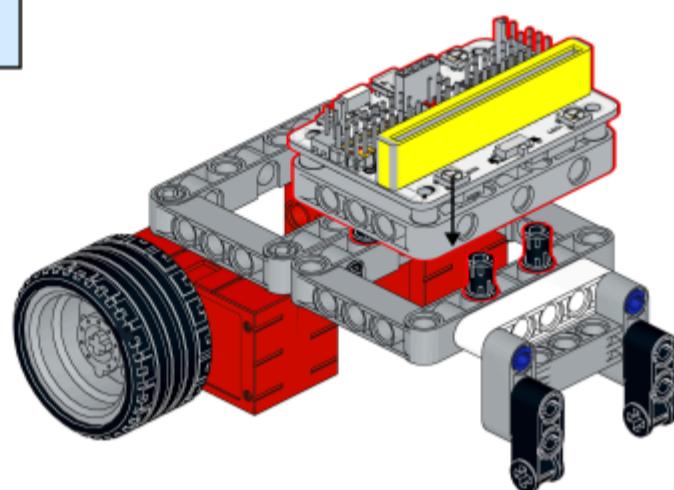
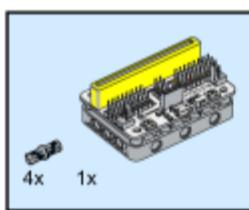
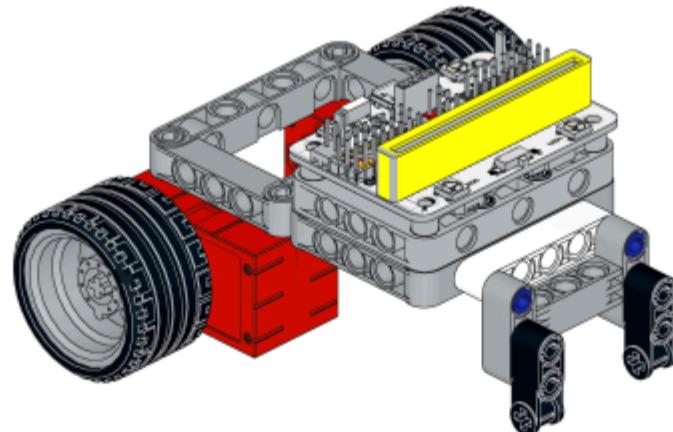


Video link: <https://youtu.be/J2QKDKnTklw>

4.4. Bricks build-up



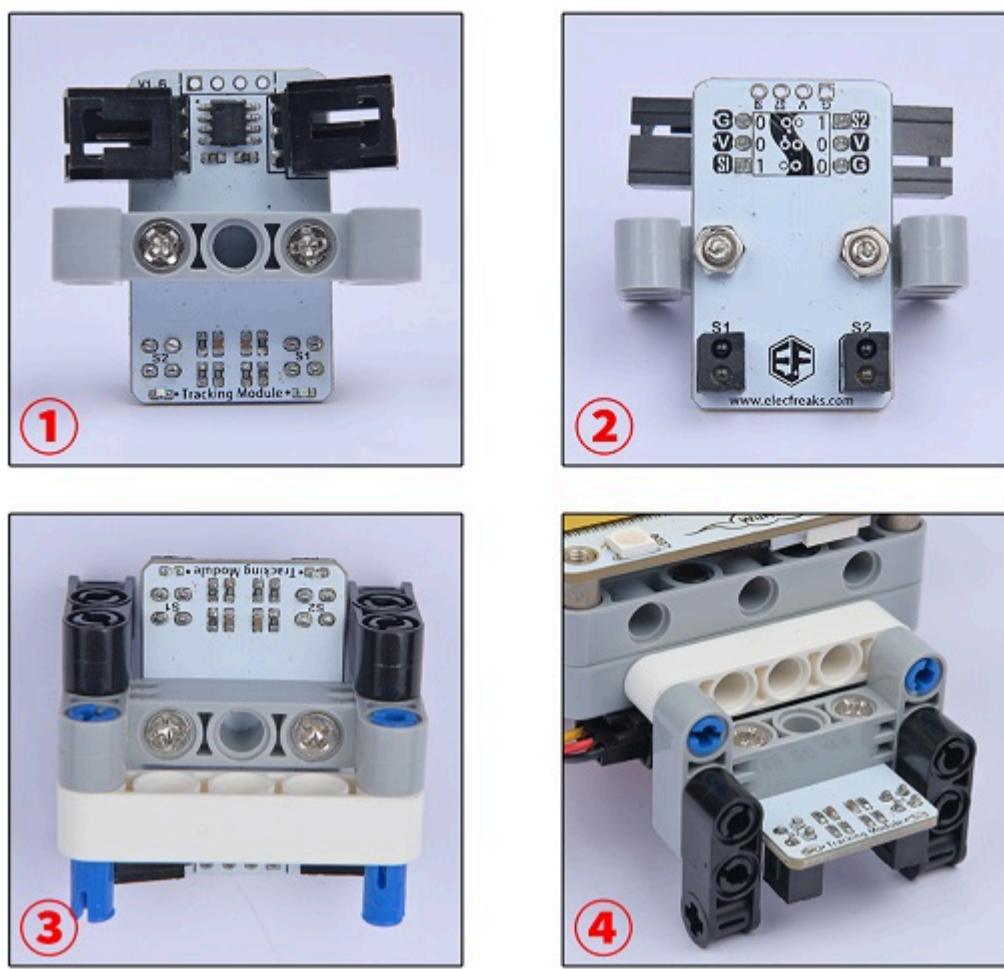
3**4****5**

6**7****8**

4.5. Installation Methods of Hardwares

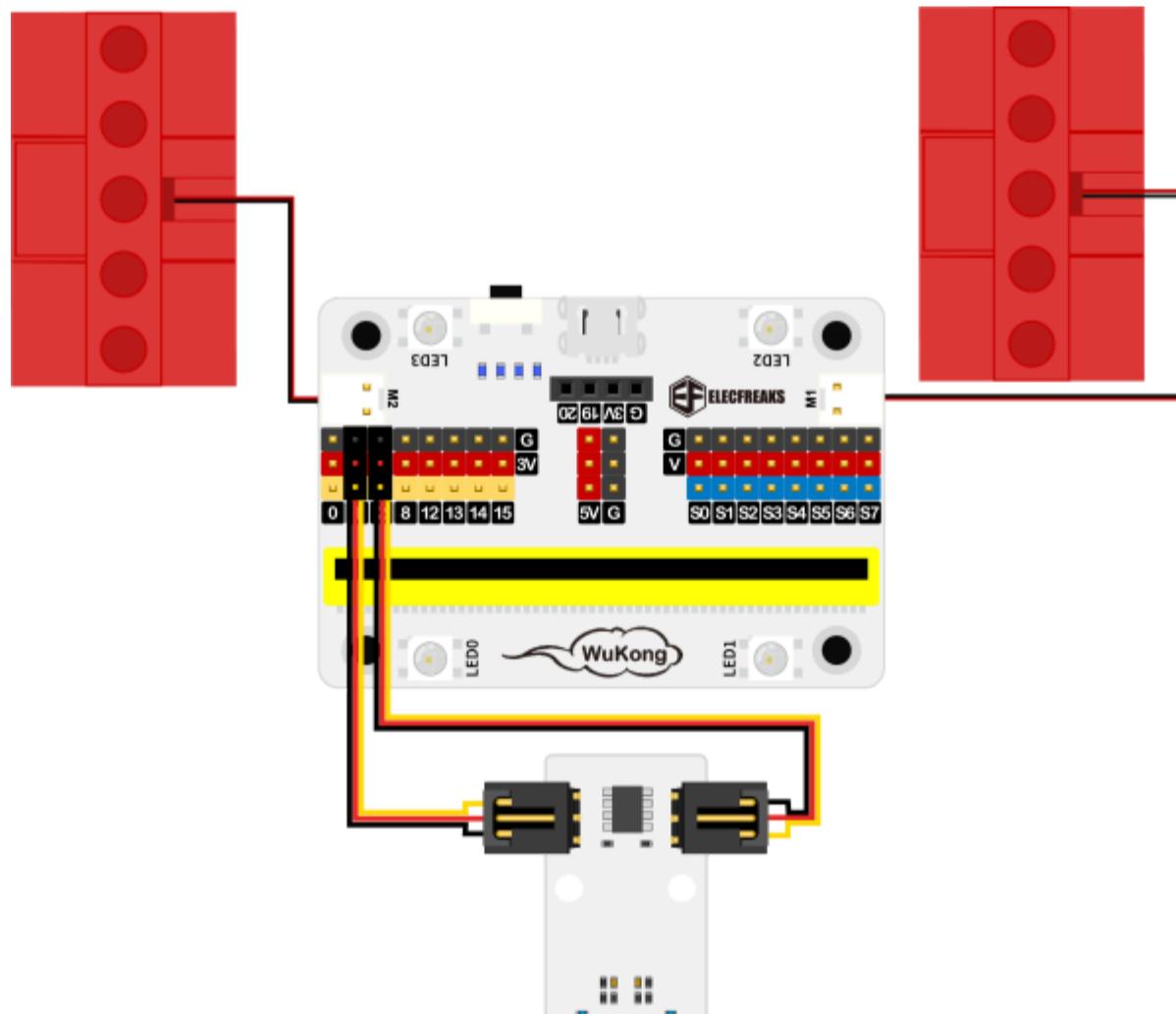
Install the dual-line tracking sensor with the bricks.

Sensor Connection Diagram



4.6. Hardware Connection

Connect two [motors](#) to M1 and M2, the [dual line-following](#) sensor to P1 and P2 ports on [Wukong breakout board](#).



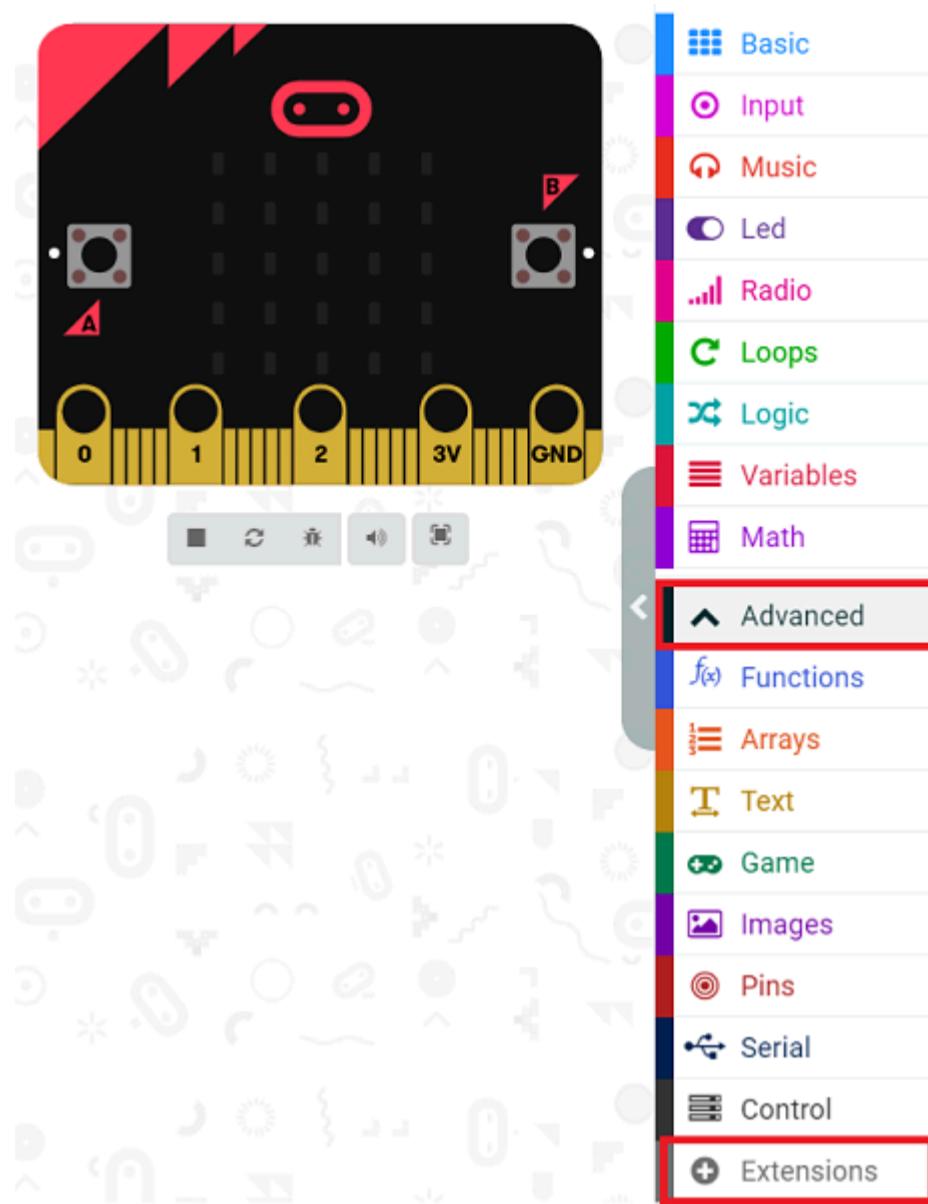
4.7. Software Platform

[MakeCode](#)

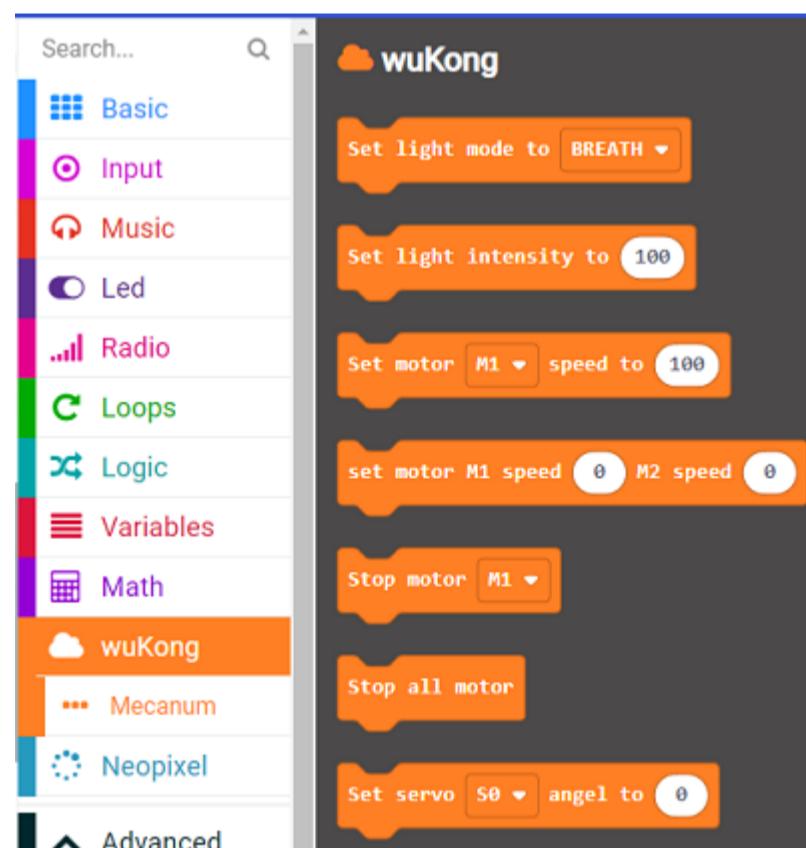
4.8. Coding

Add extensions

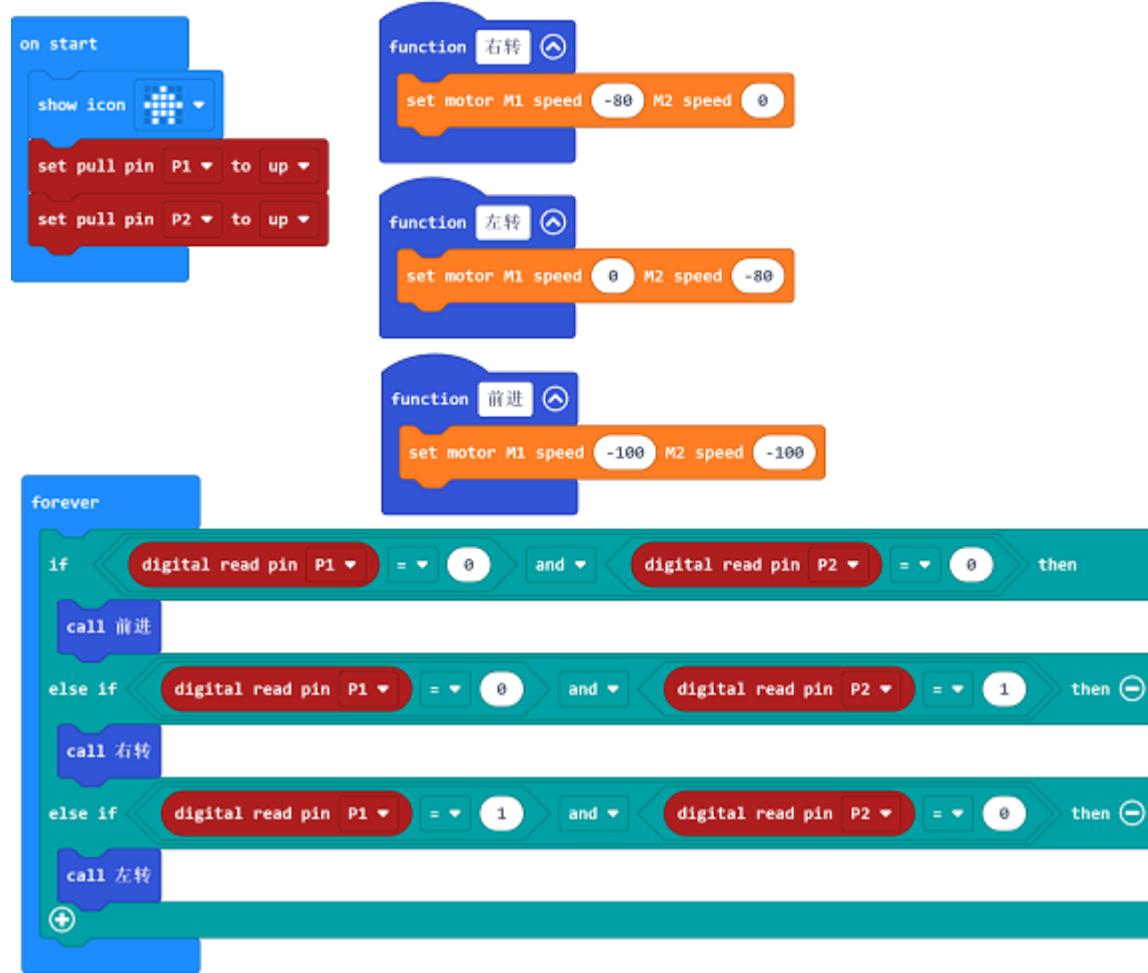
Click “Advanced” in the MakeCode to see more choices.



Search with Wukong in the dialogue box to download it.



Program



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

Result

The car moves along with the maps at a uniform speed, it will keep its speed and directions if it deviates from the black line until it goes back.

By ELECFREAKS Team

© Copyright 2022, ELECFREAKS Team.