

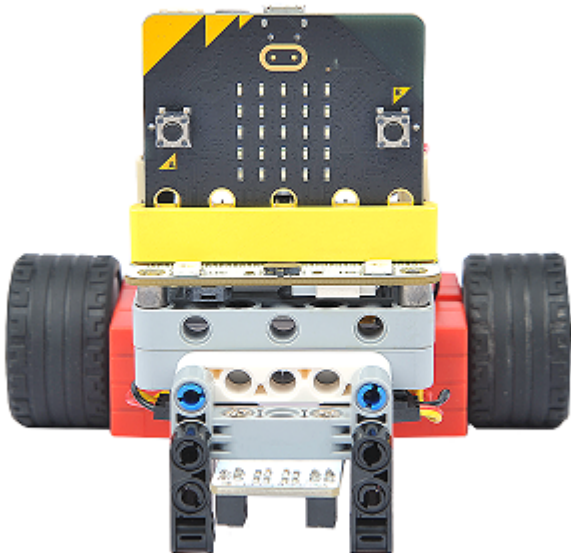
Case 02: Line-following Cars

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4.1. Purpose

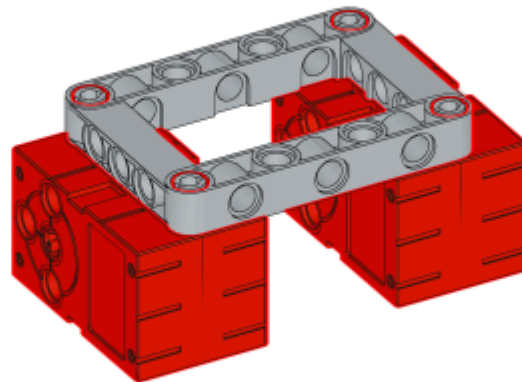
To make a line following car.

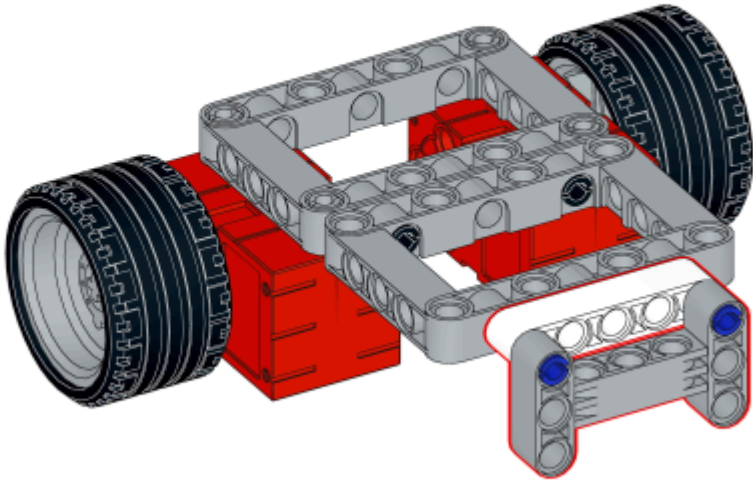
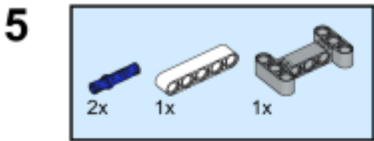
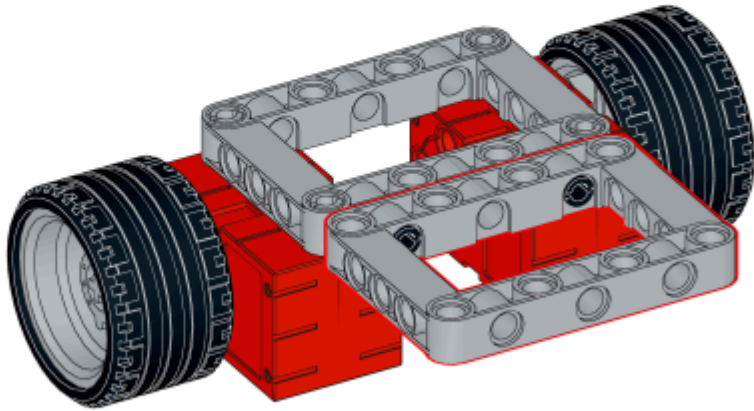
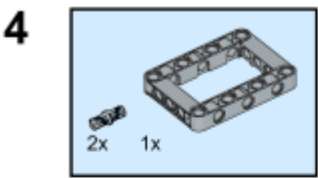
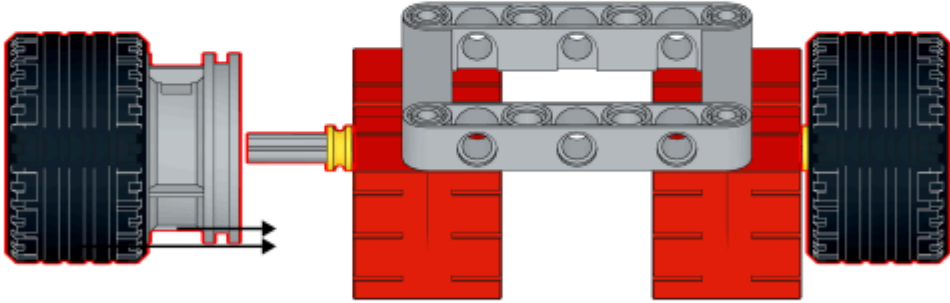
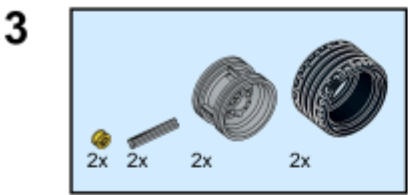


4.2. Link

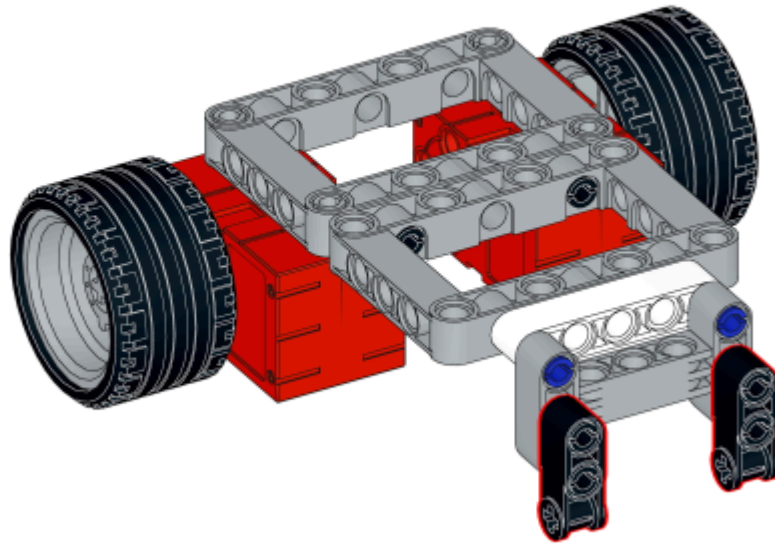
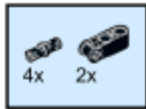
[micro:bit Wonder Building Kit](#)

4.3. Materials Required

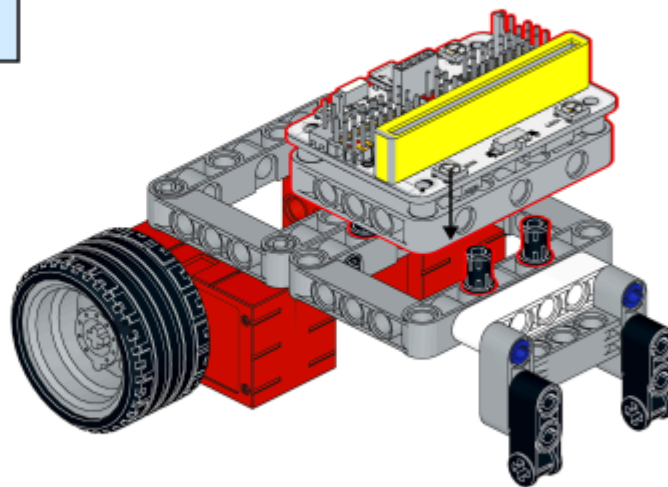
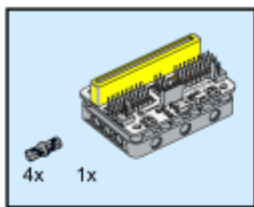




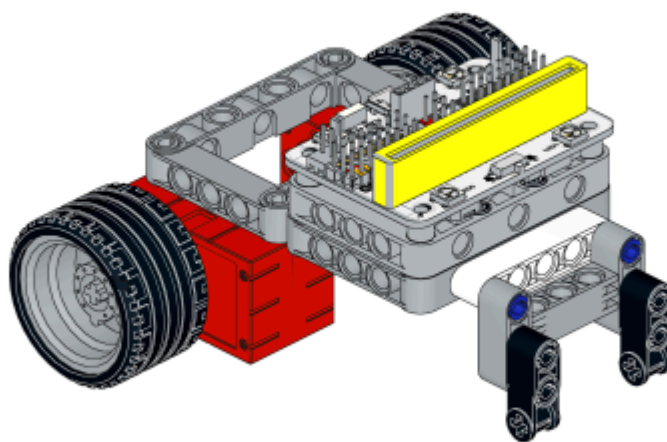
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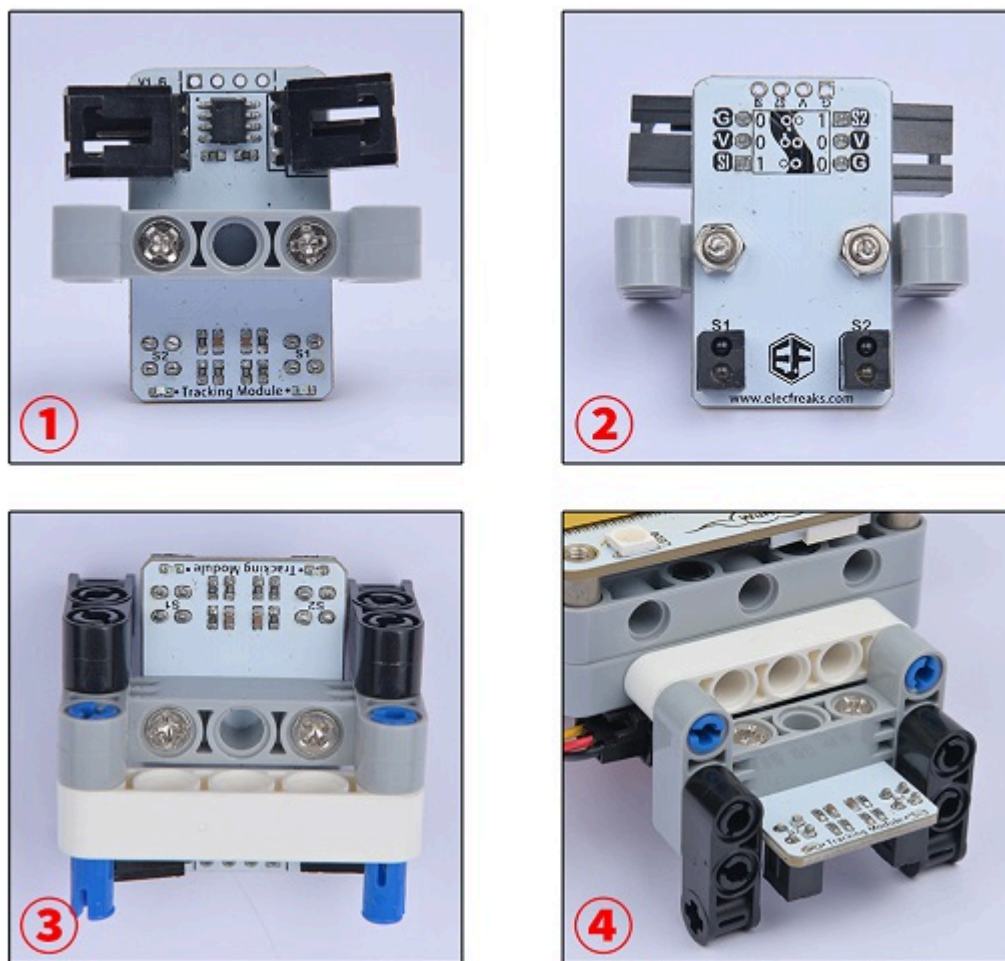
8



4.5. Installation Methods of Hardwares

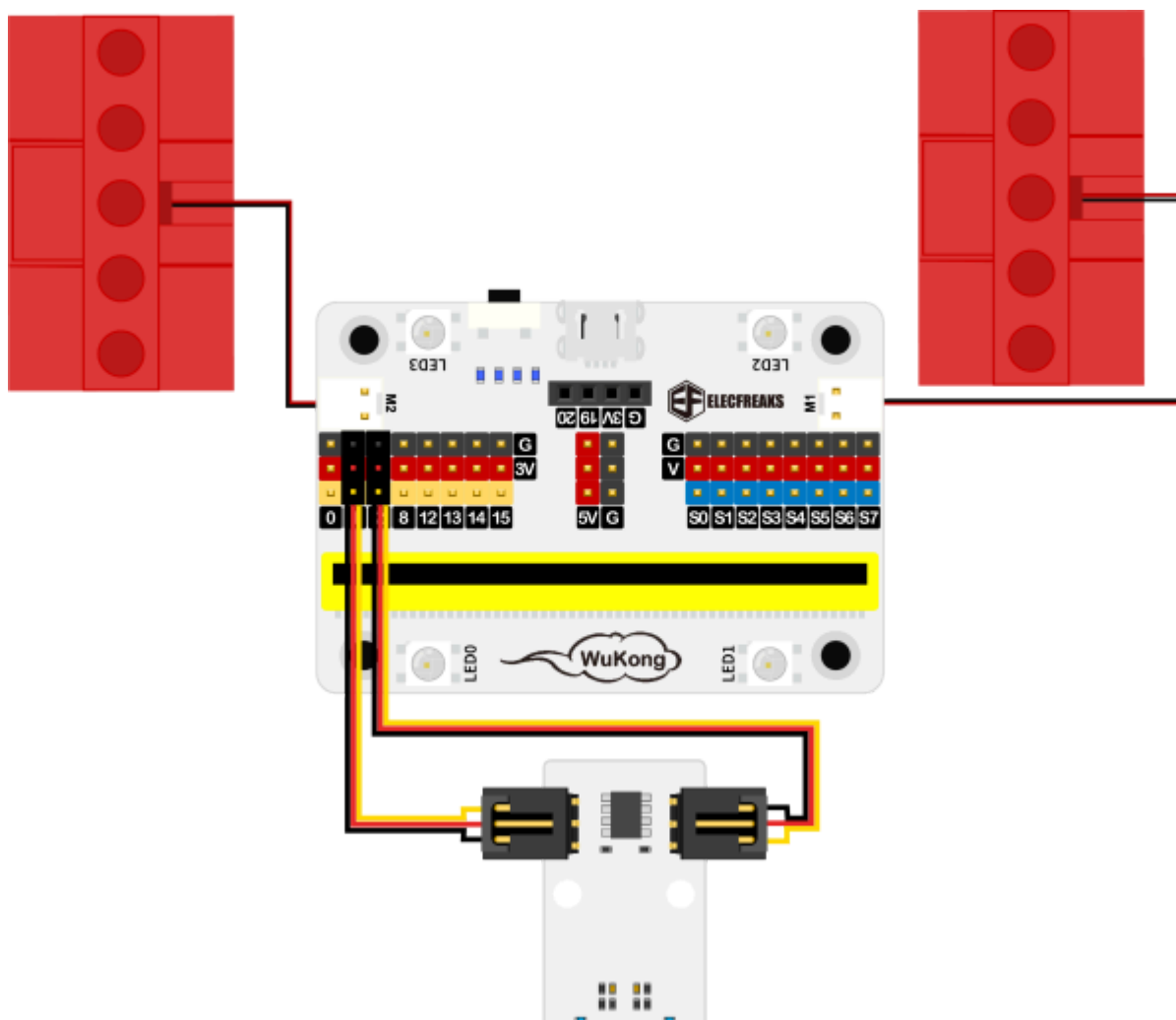
Install the dual-line tracking sensor with the bricks.

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](#).



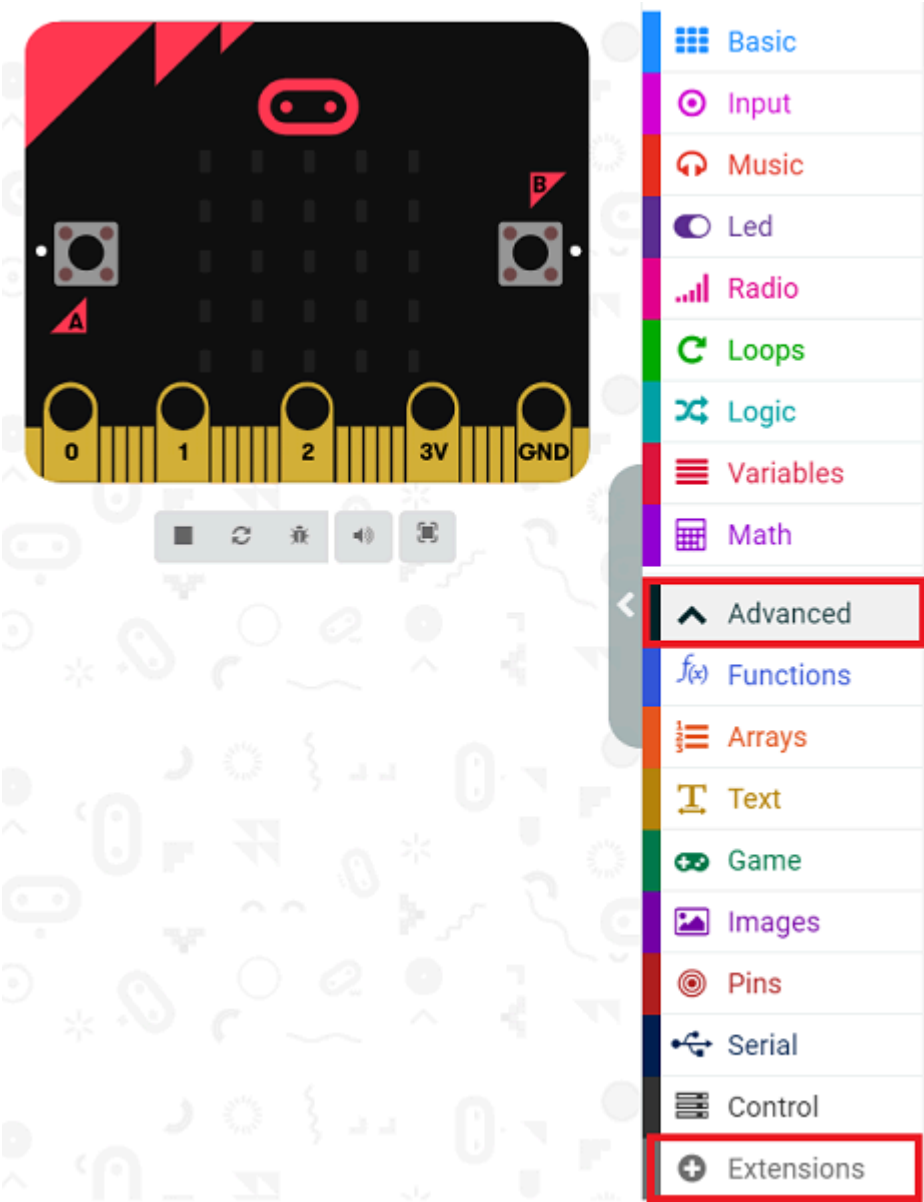
4.7. Software Platform

[MakeCode](#)

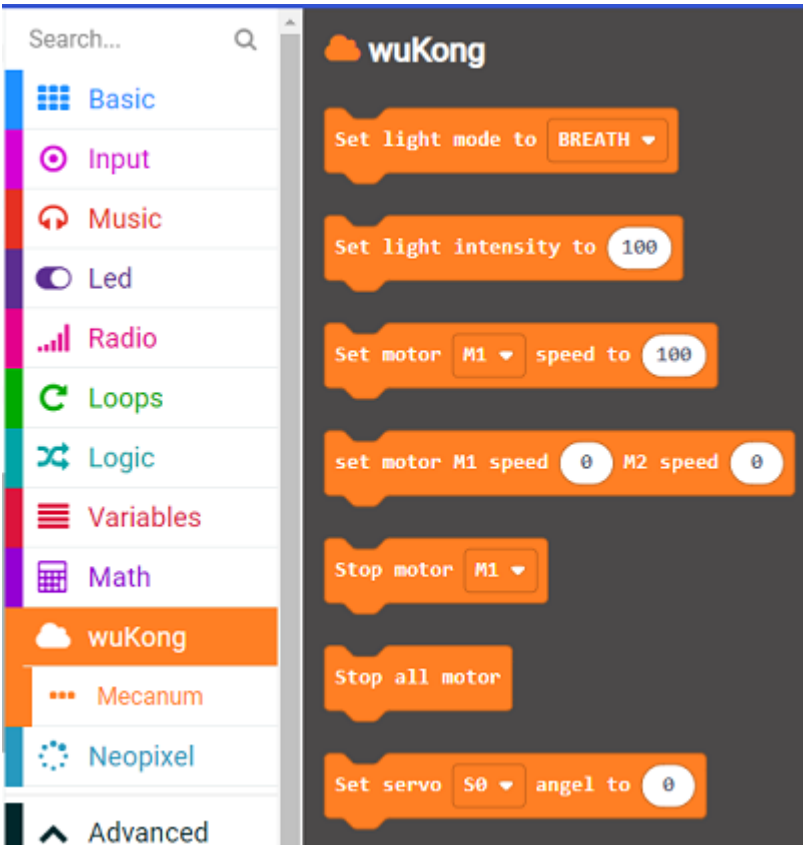
4.8. Coding

Add extensions

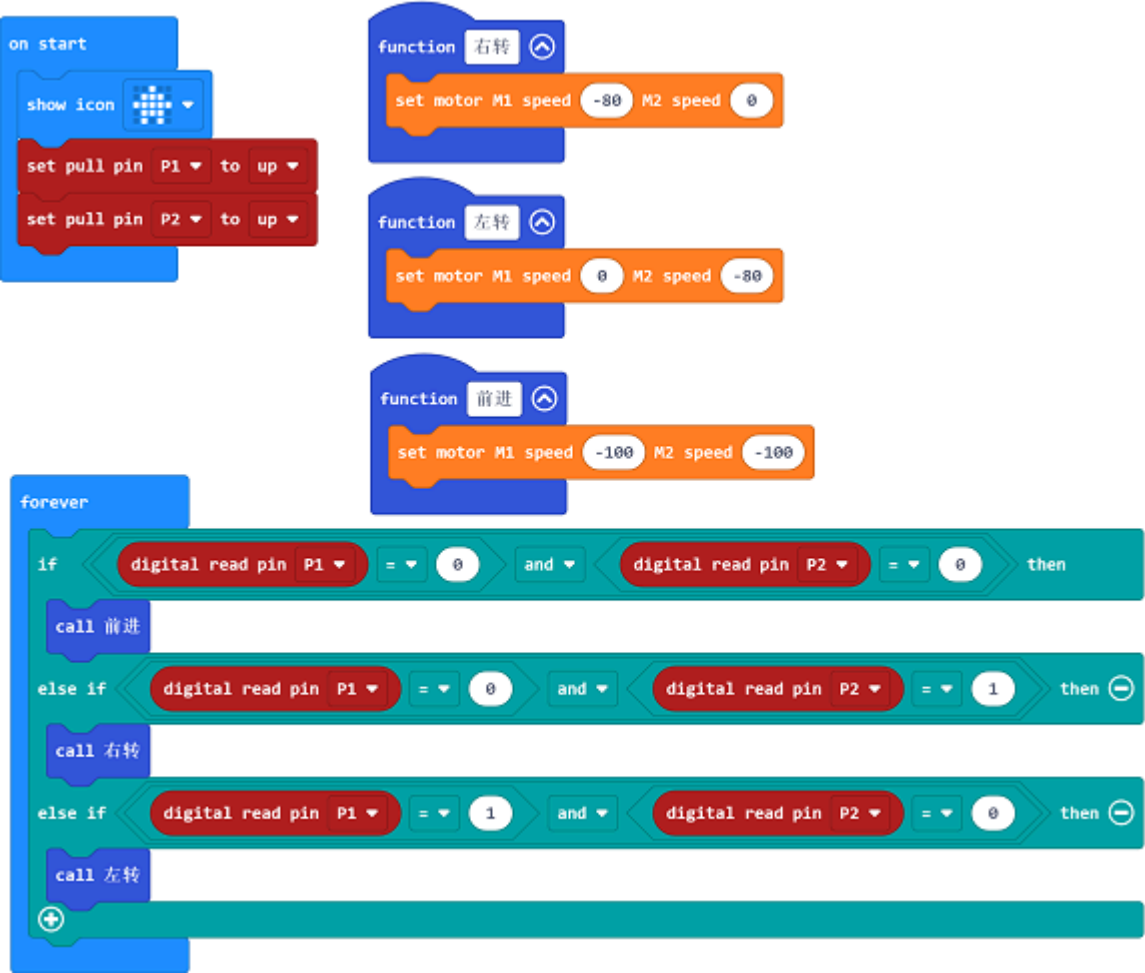
Click “Advanced” in the MakeCode to see more choices.



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
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