

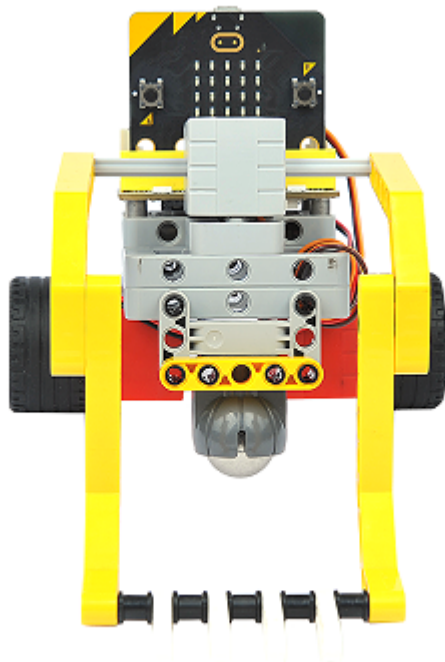
Case 12: The Forklift

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14.1. Purpose

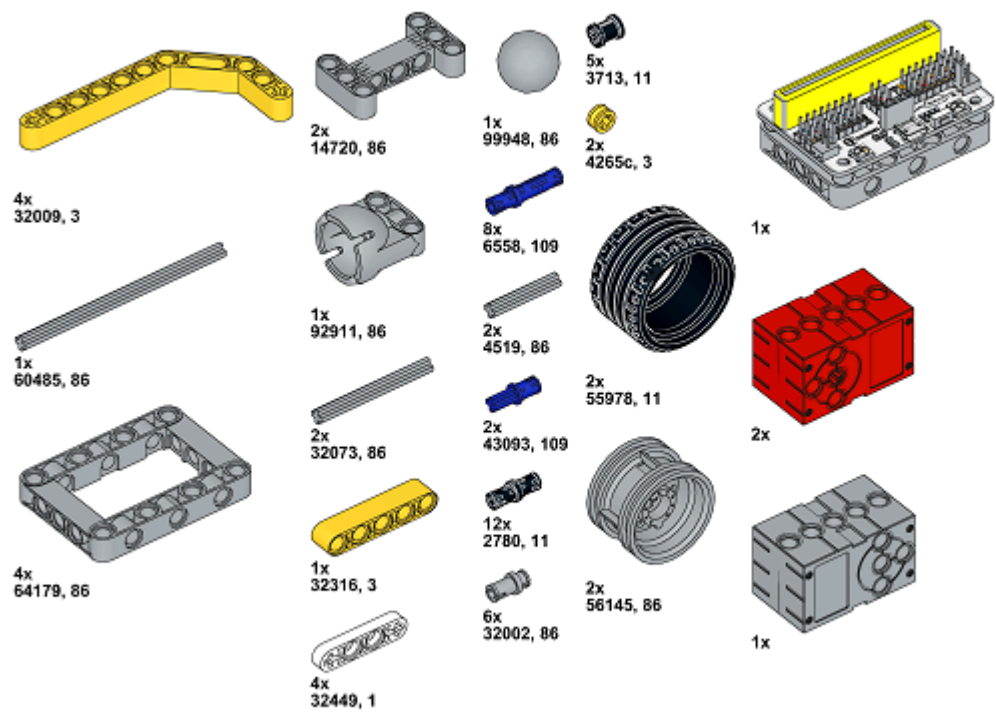
To make a forklift.



14.2. Link

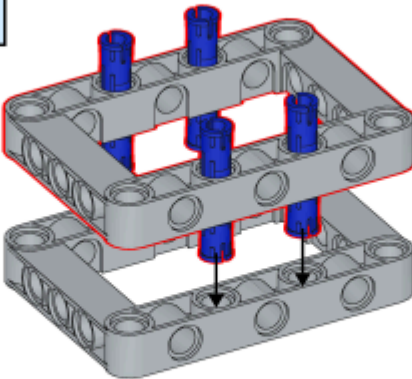
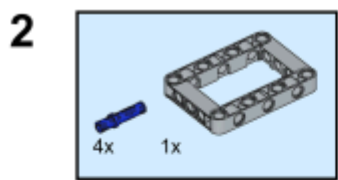
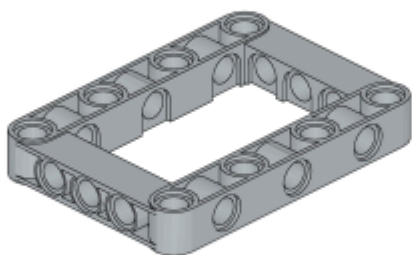
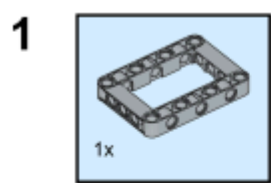
[micro:bit Wonder Building Kit](#) [Joystick bit](#)

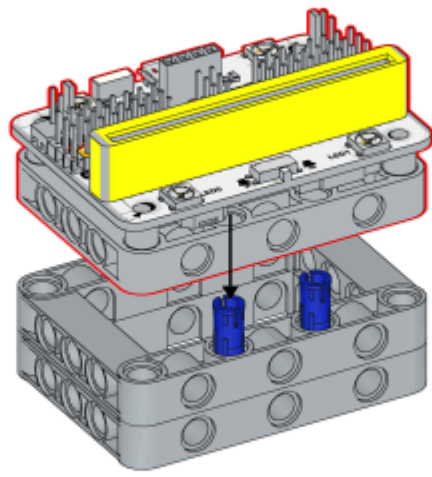
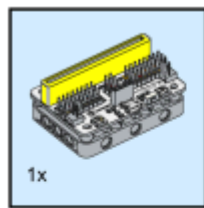
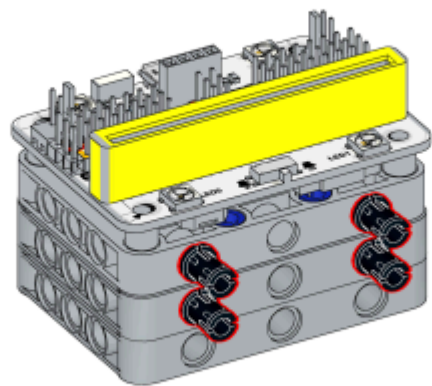
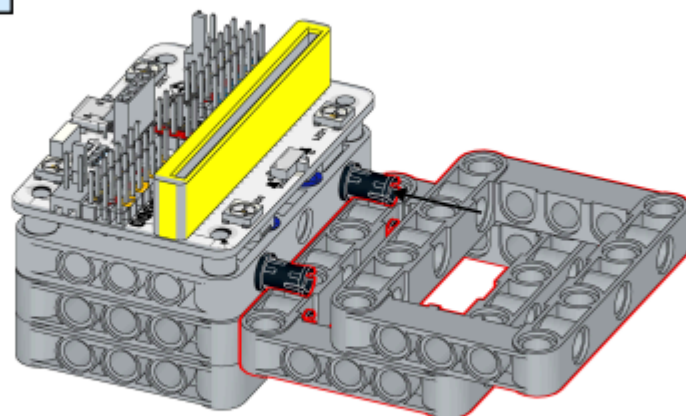
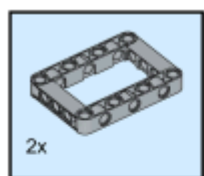
14.3. Materials Required



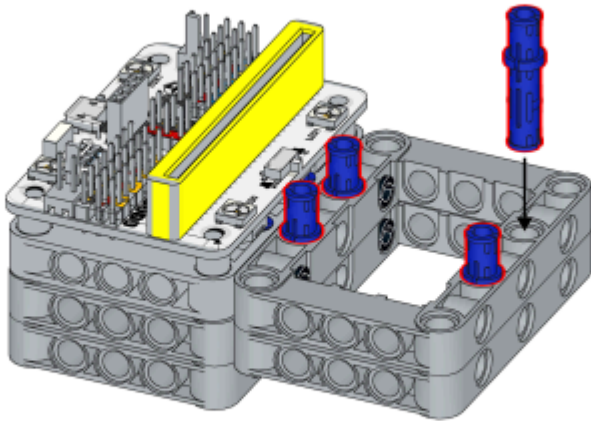
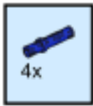
Video link: <https://youtu.be/PIhMVJYBMhM>

14.4. Bricks build-up

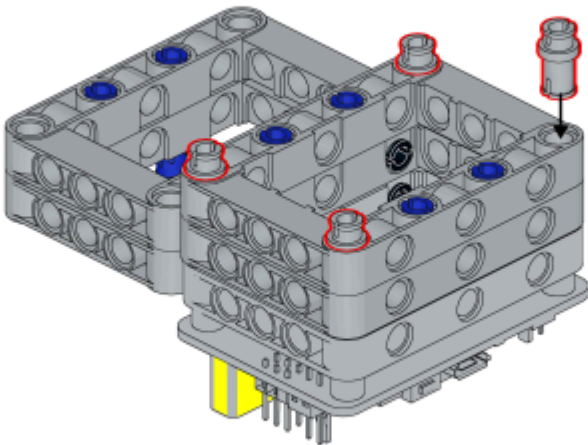


3**4****5**

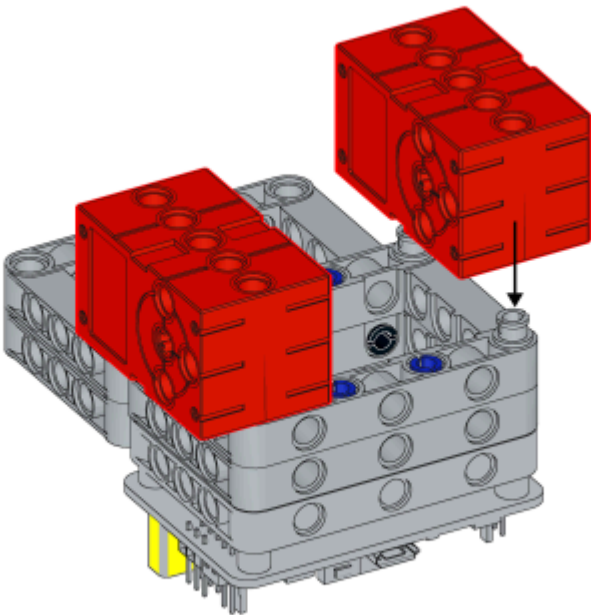
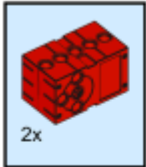
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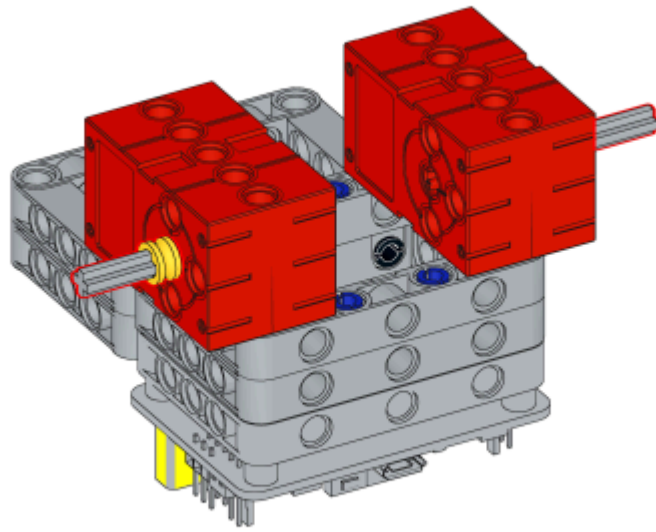
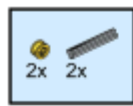
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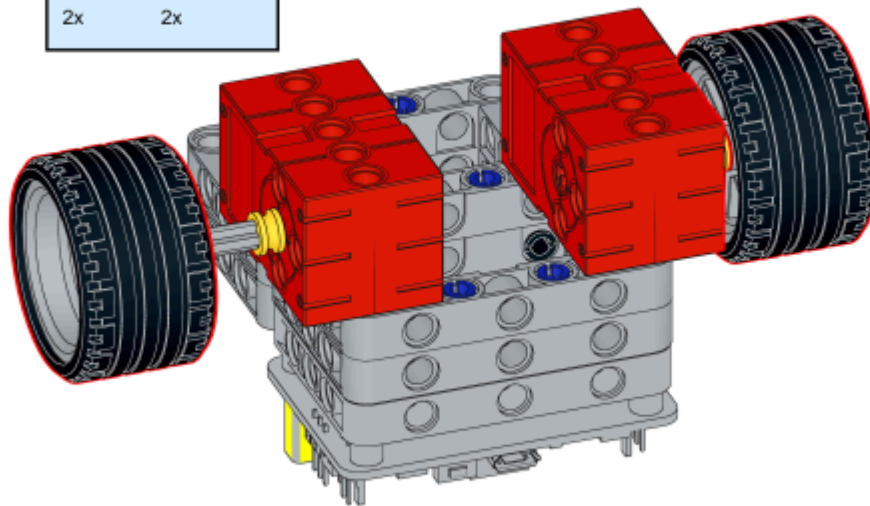
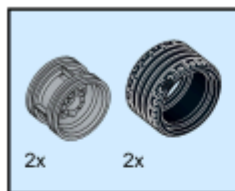
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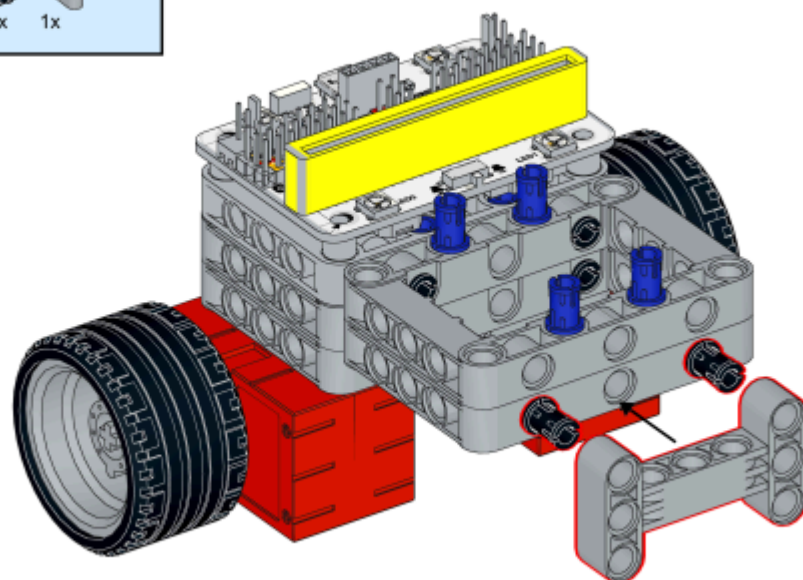
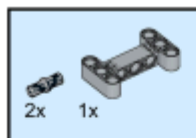
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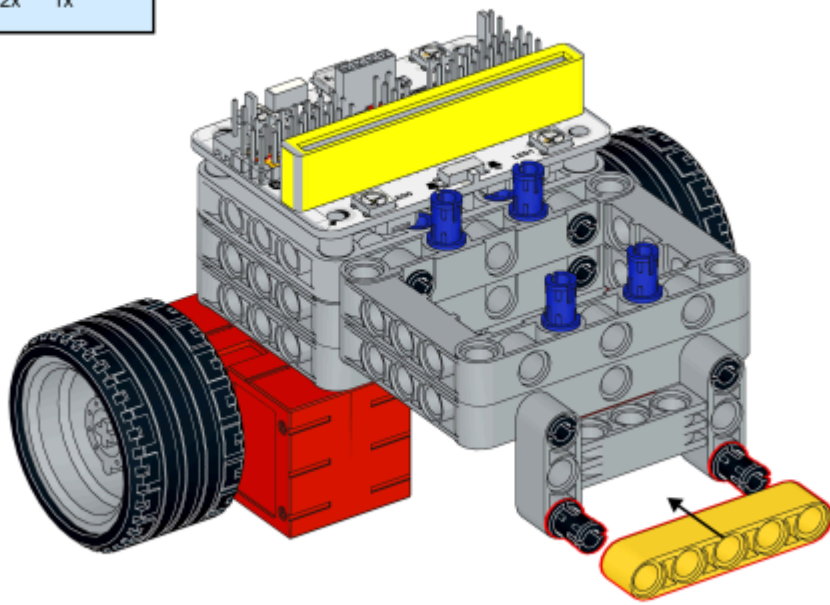
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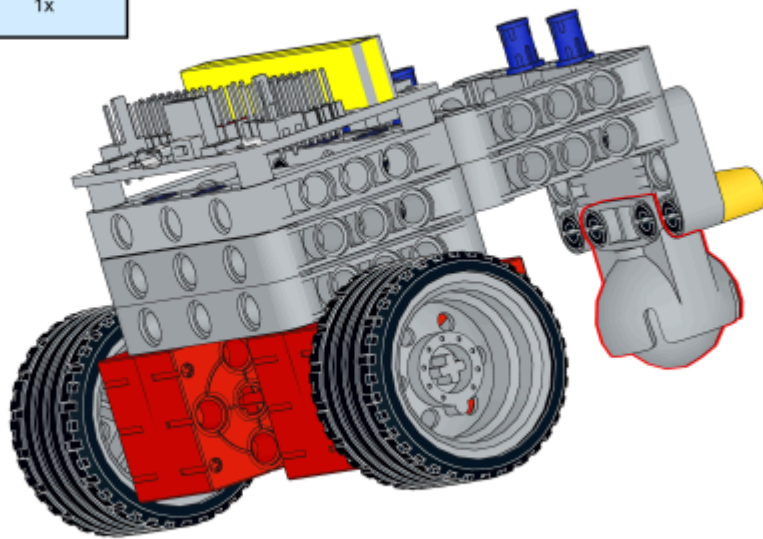
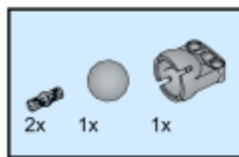
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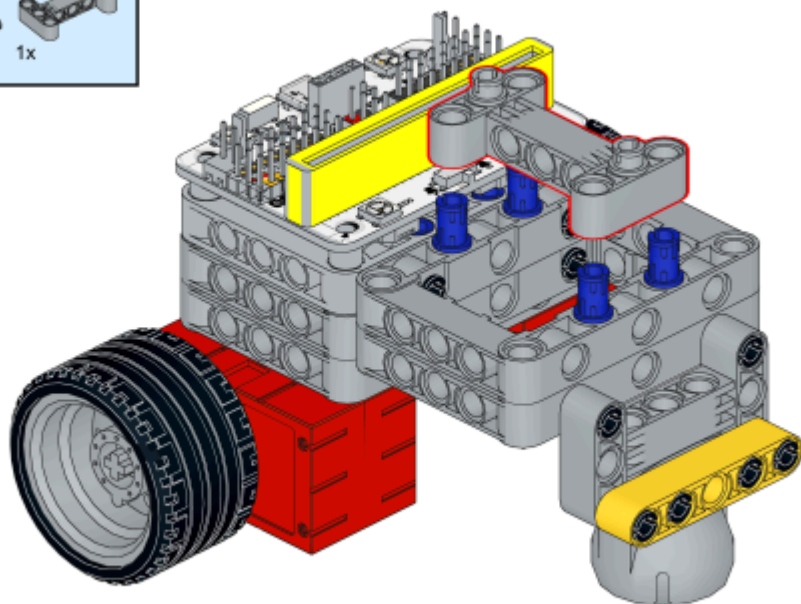
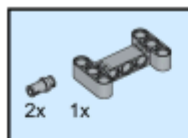
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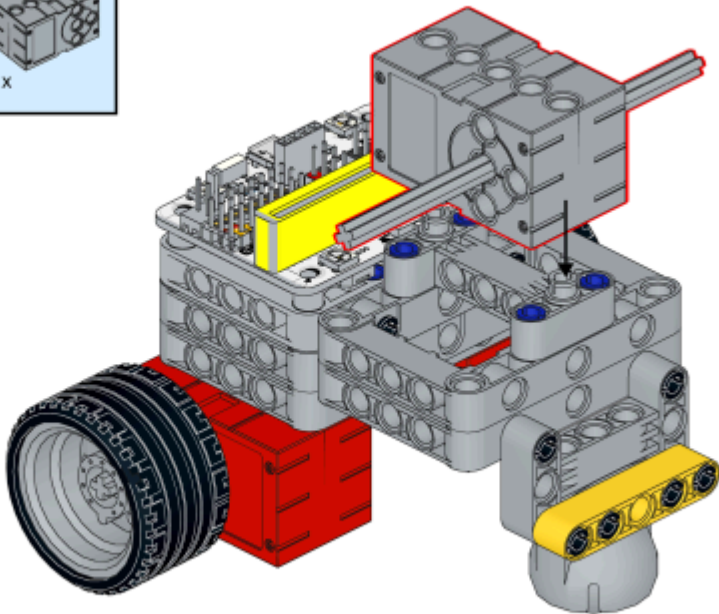
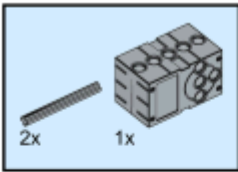
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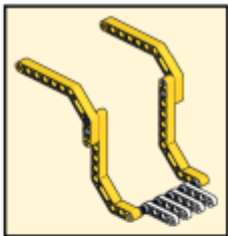
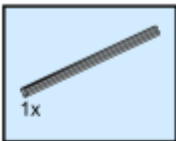
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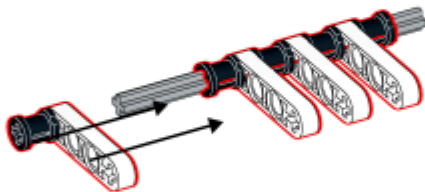
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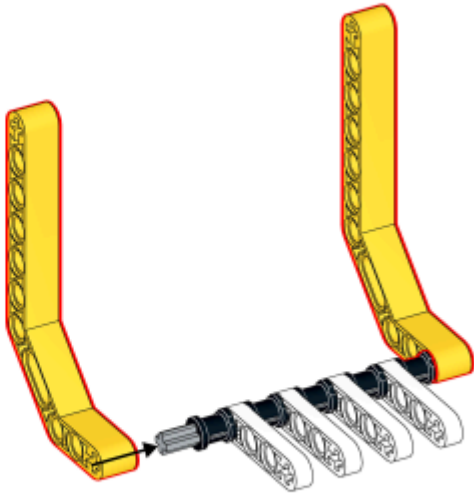
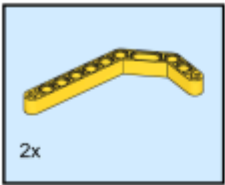
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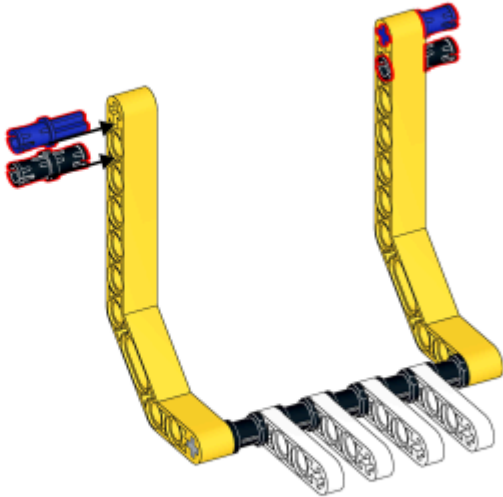
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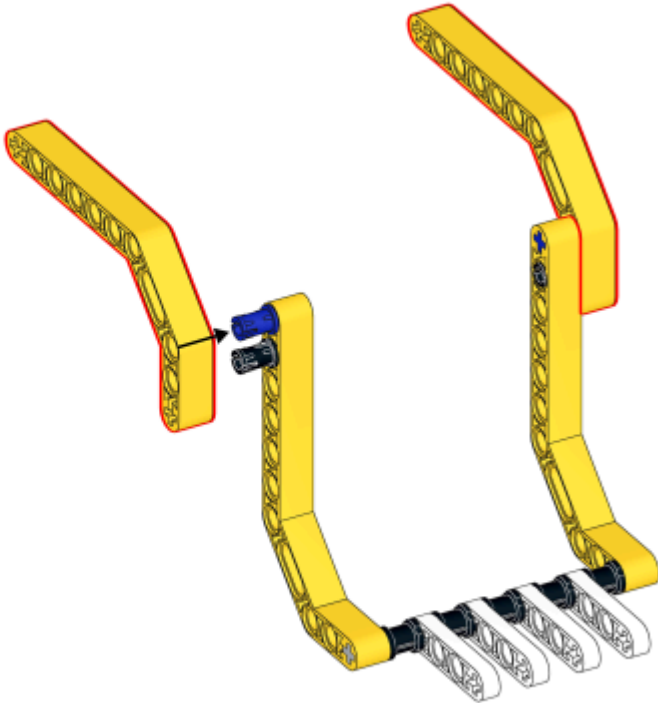
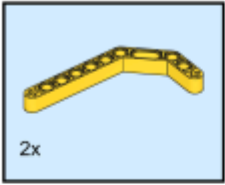
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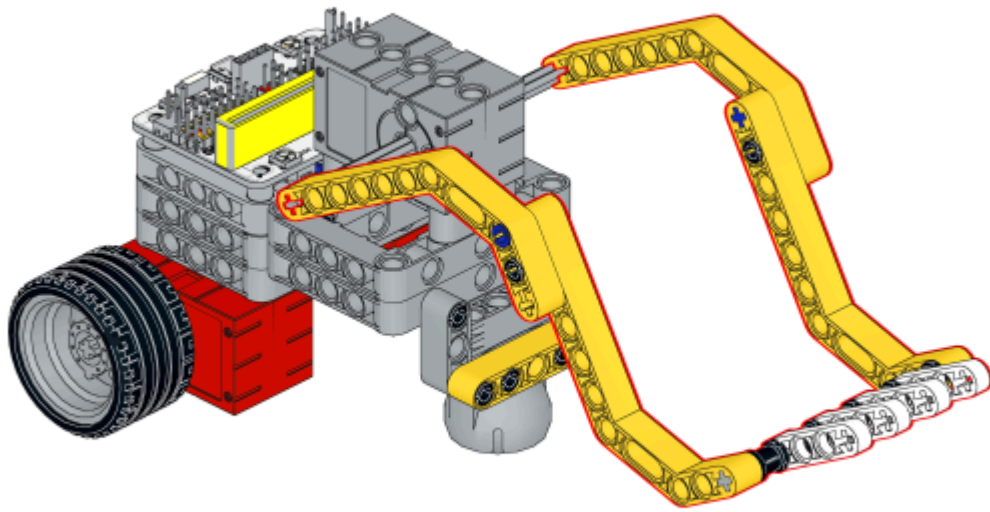
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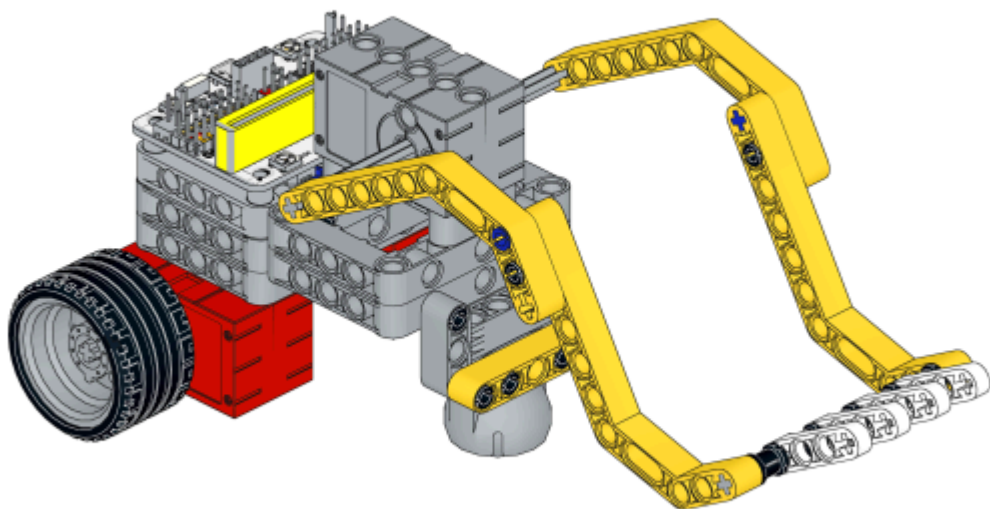
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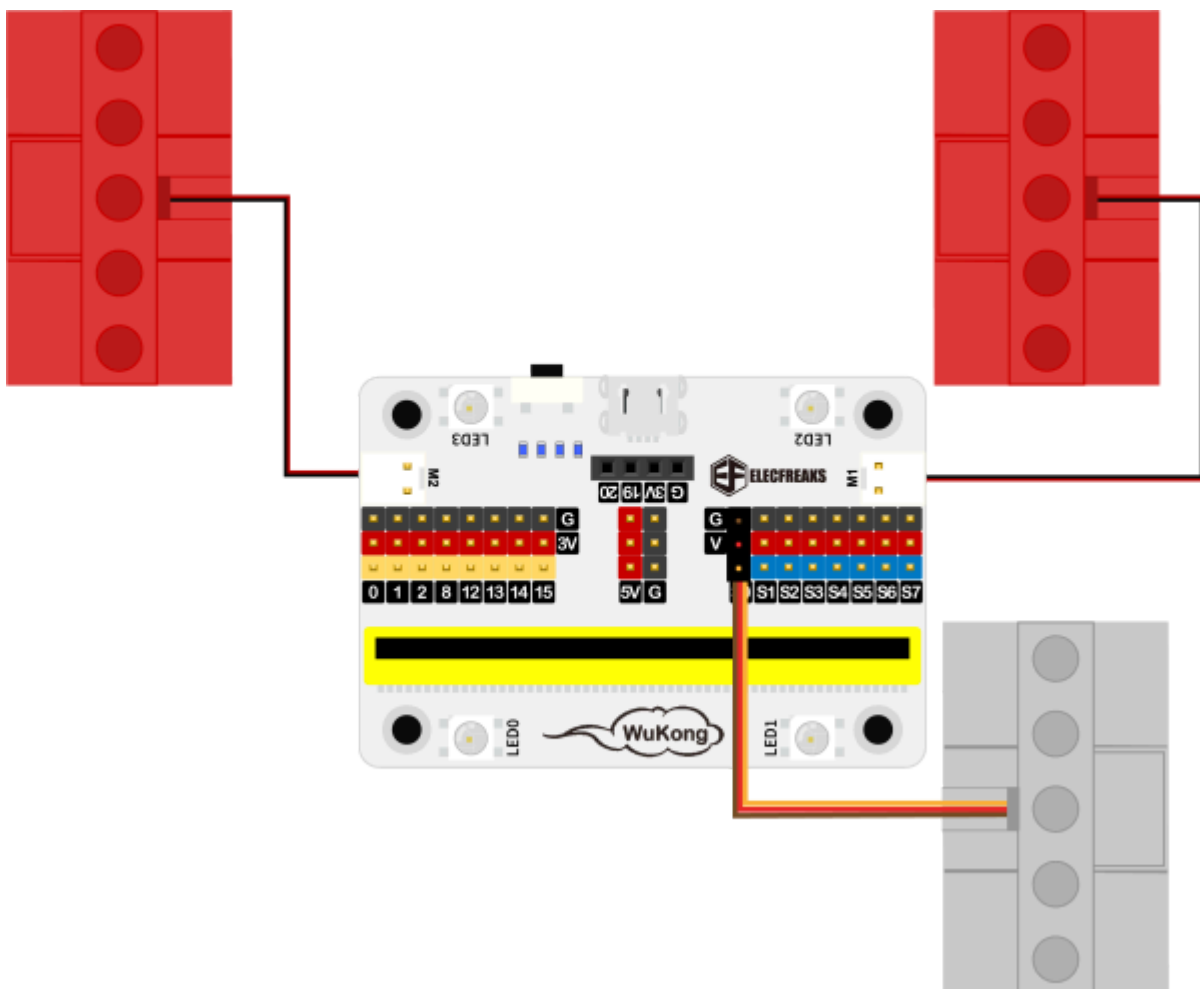


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14.5. Hardware Connection

Connect two [motors](#) to M1 and M2, the [servo](#) to S0 ports on [Wukong breakout board](#).



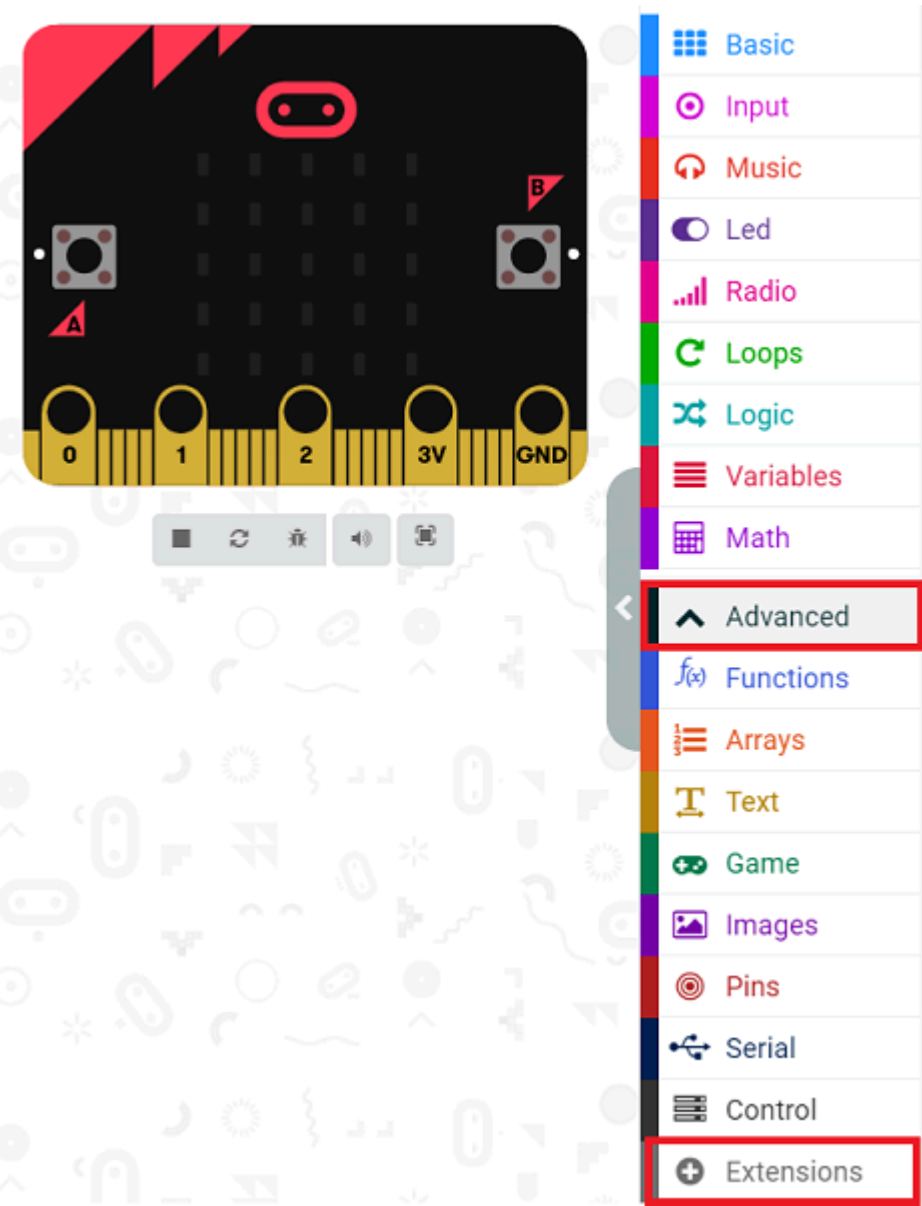
14.6. Software Platform

[MakeCode](#)

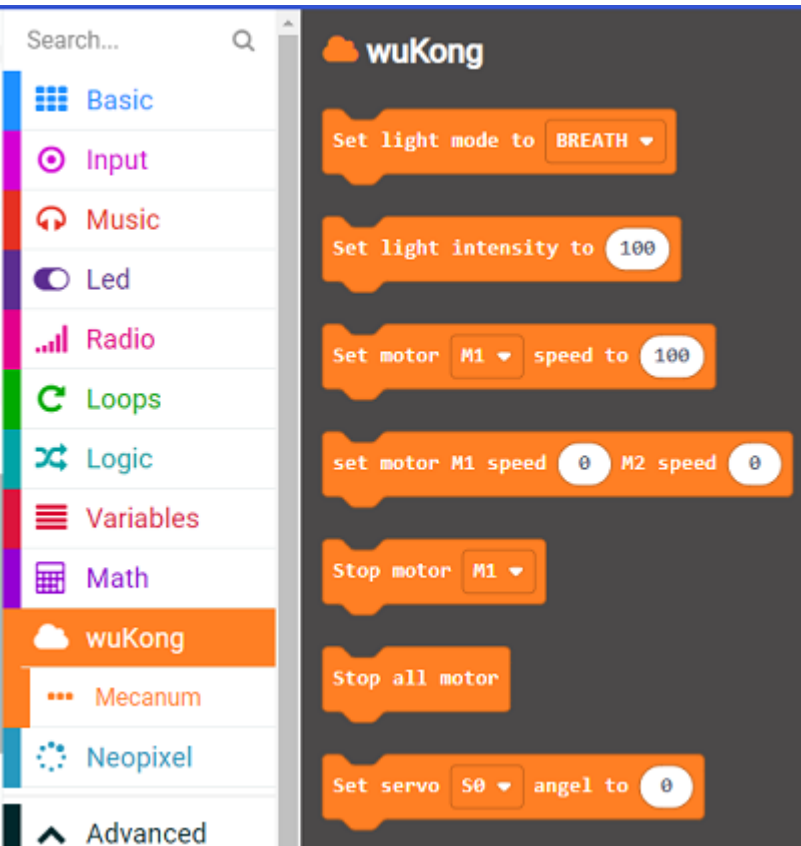
14.7. Coding

Add extensions

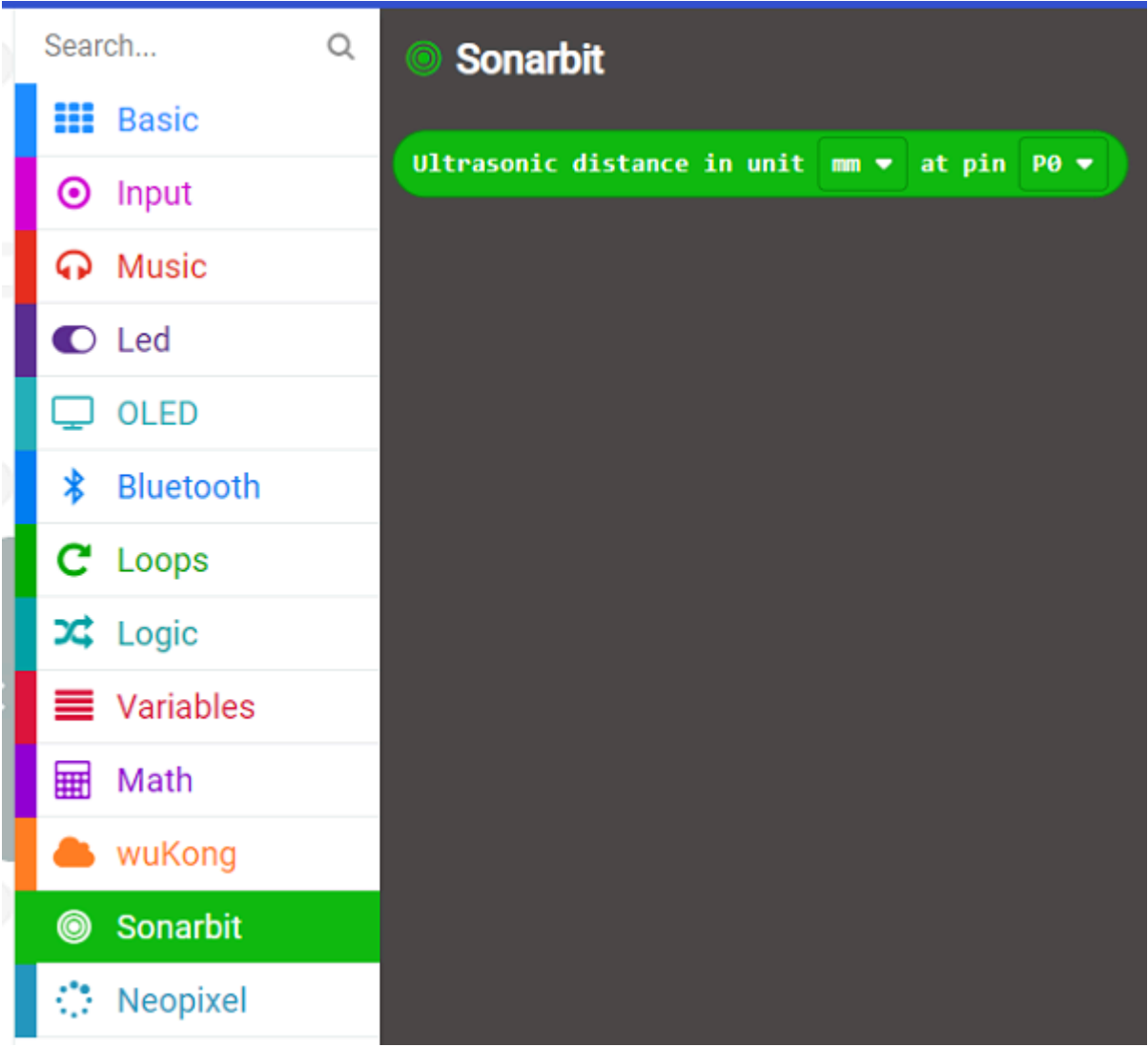
Click “Advanced” in the MakeCode to see more choices.



Search with Wukong in the dialogue box to download it.

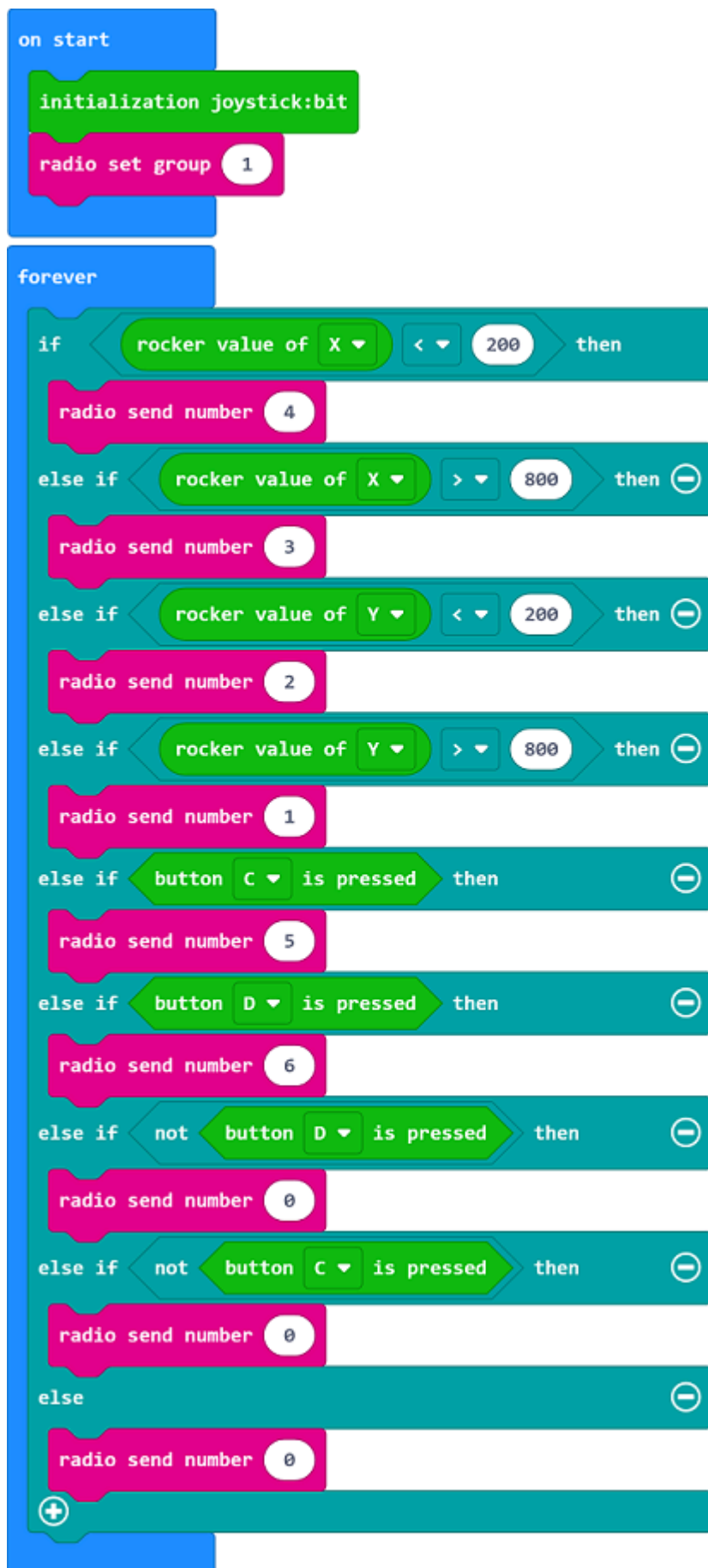


Search with <https://github.com/electfreaks/pxt-sonarbit> in the dialogue box to add the sonar:bit extension.

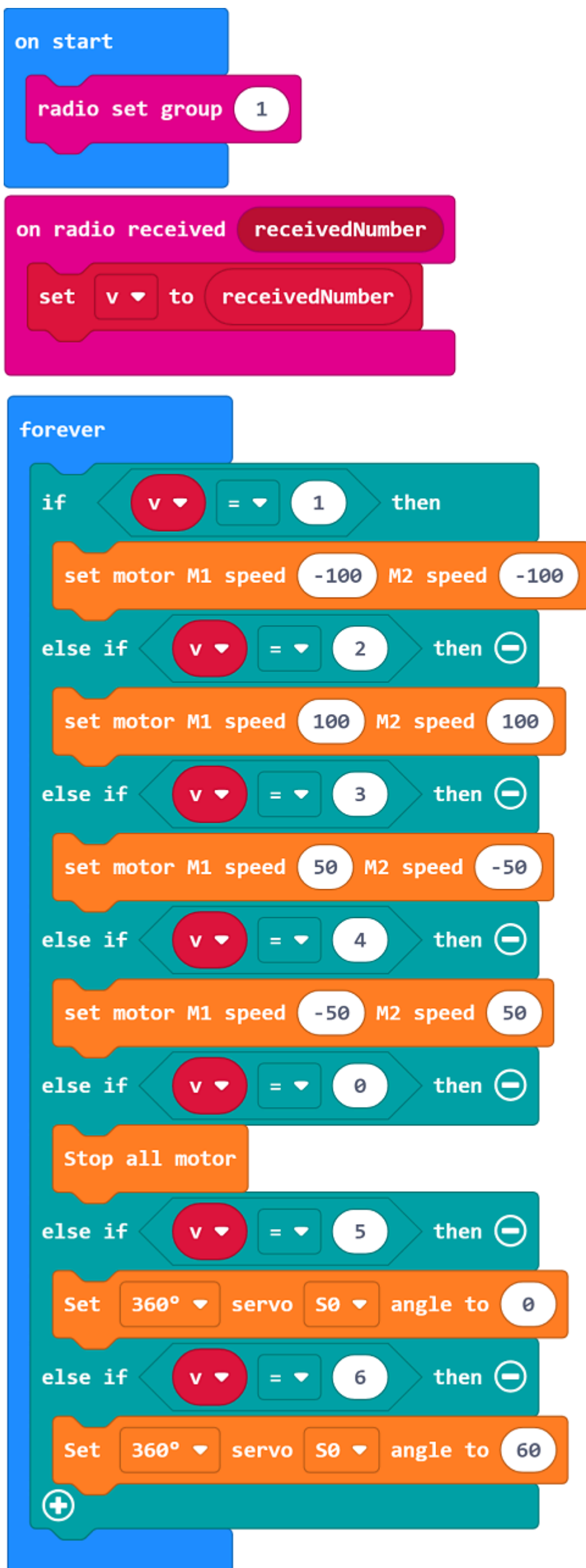


Program

For Joystick:bit:



Link: https://makecode.microbit.org/_f5DVqMKrtgYA For the forklift:



Link: https://makecode.microbit.org/_UoAP69ArTfyT

Result

Use the handle to control the forklift, the up and down, left and right directions of the handle rocker are to control the forward and backward, the left and right movement of the forklift, D button to control the raising of the forklift, C button to control the lowering of it.

By ELECFREAKS Team
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