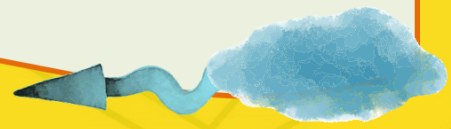
The Hug From Robot

Target

- Learn the basic color detection methods of the color sensor.
- Learn to use the color sensor to detect objects.
- Learn the applications of conditional logic.

01 Assembly



Assembly

Start from the assembly in Lesson 5.

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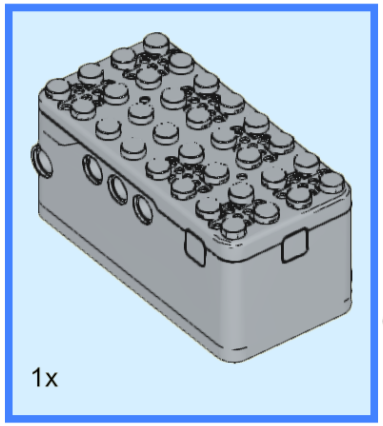
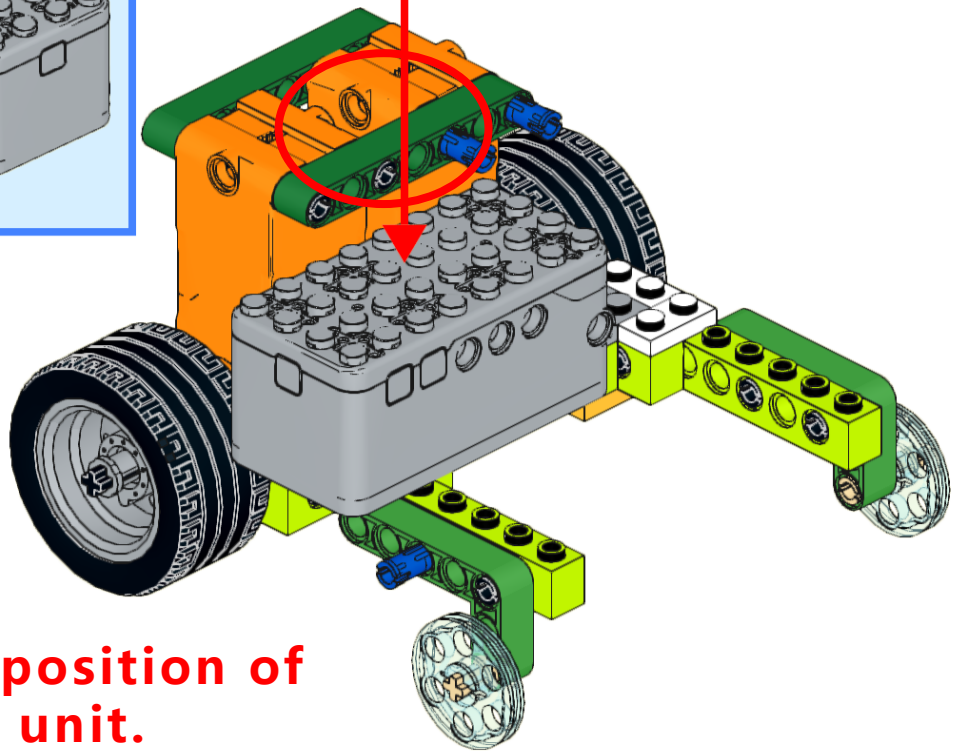


Replace the two-pin connector with a three-pin connector



Switch the position of the control unit.

Assembly

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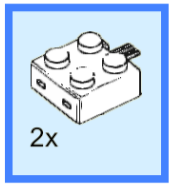
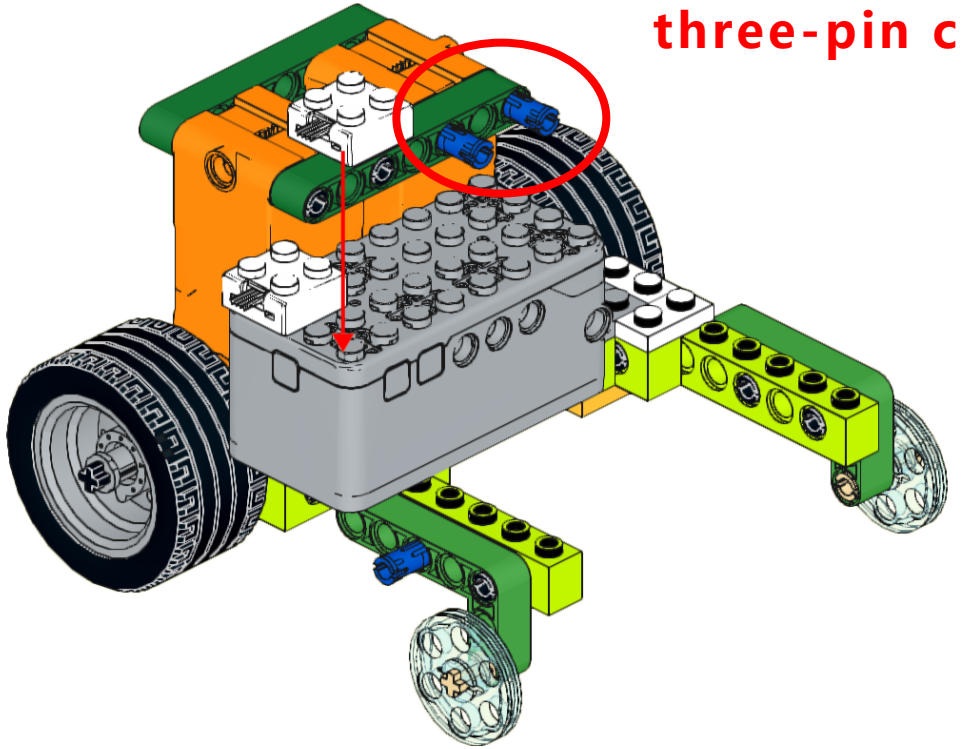


Replace the two-pin connector with a three-pin connector



Assembly

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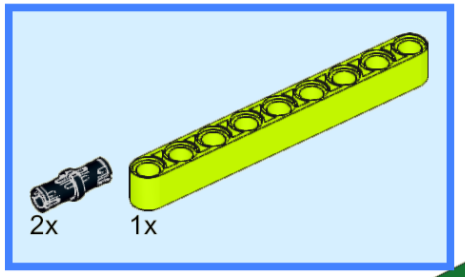

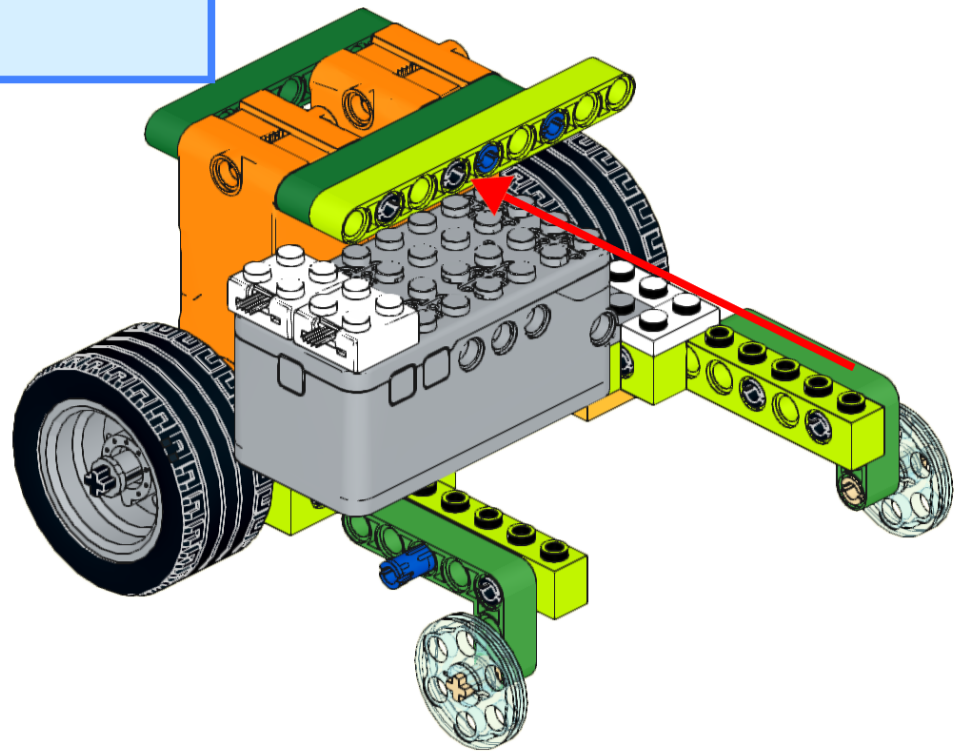

Assembly

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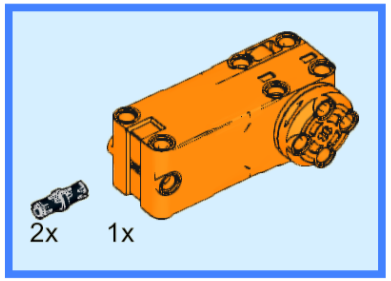

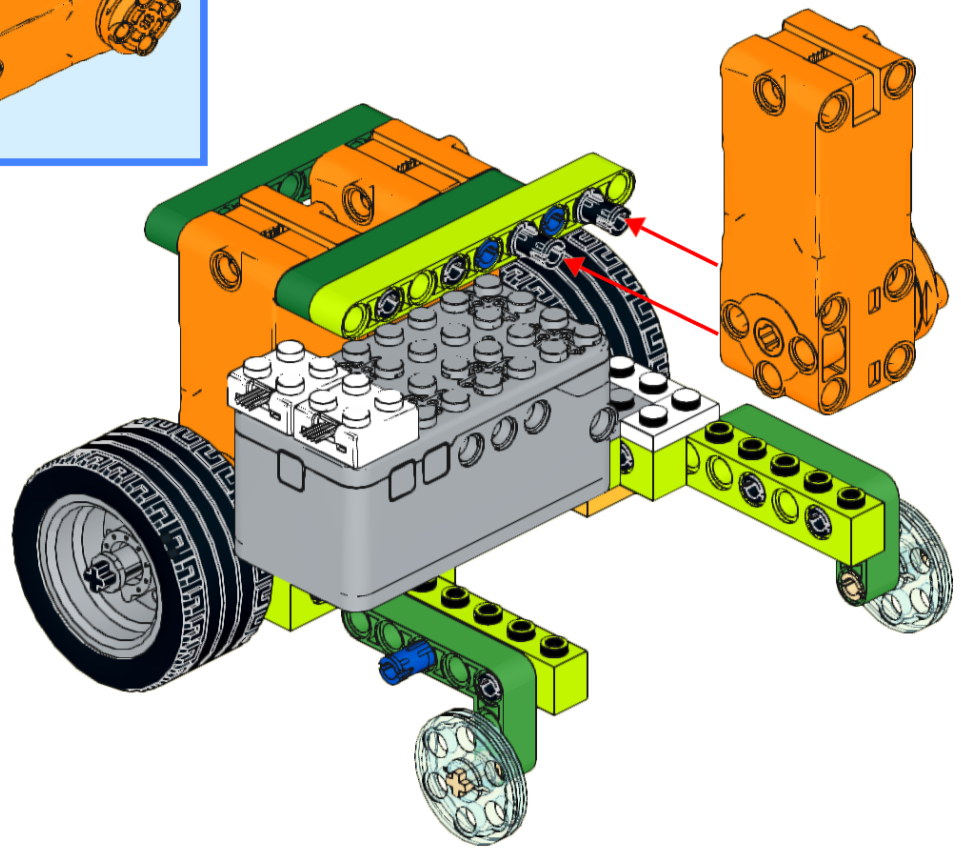

Assembly

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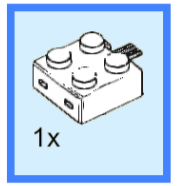

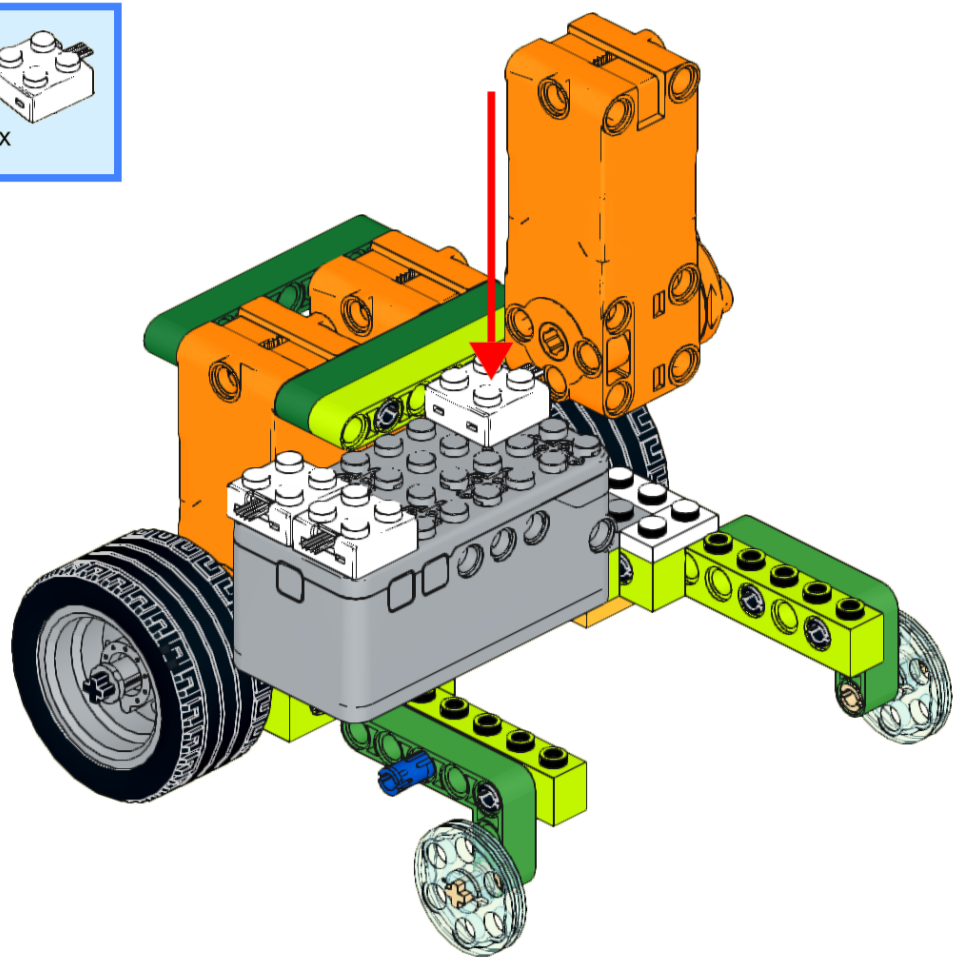

Assembly

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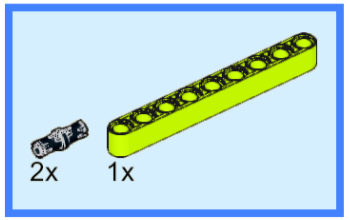

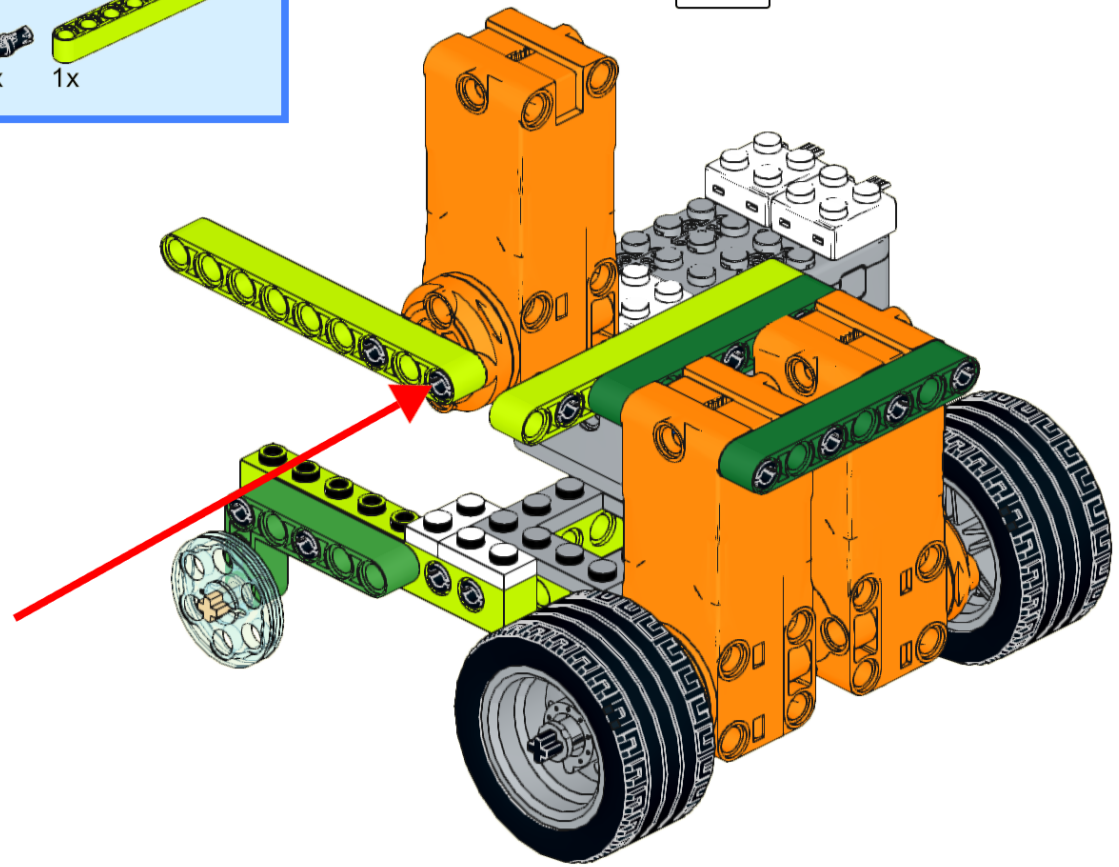

Assembly

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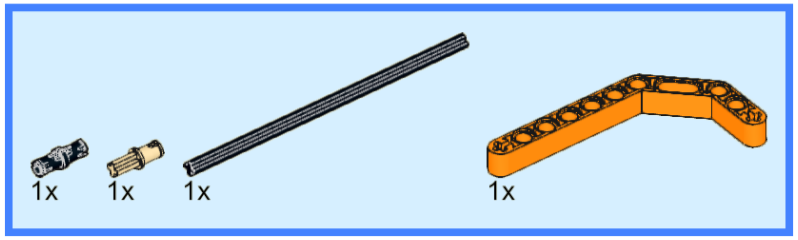
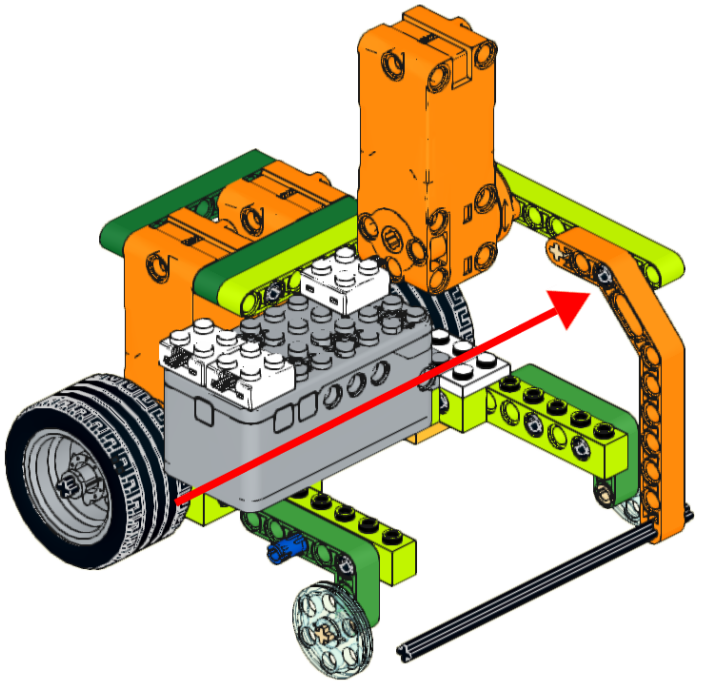
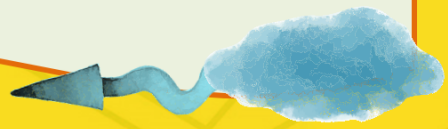




Remember to install the grayscale sensor before starting the task.

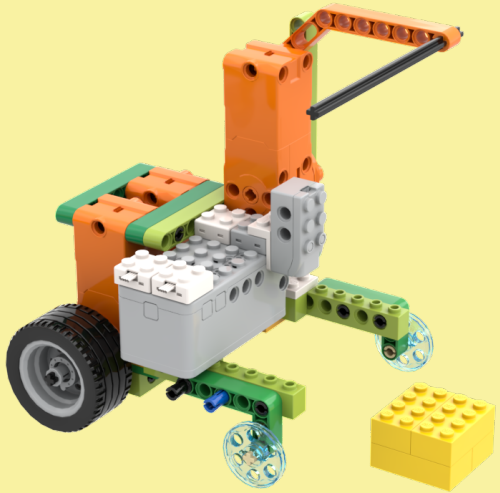
02 Task

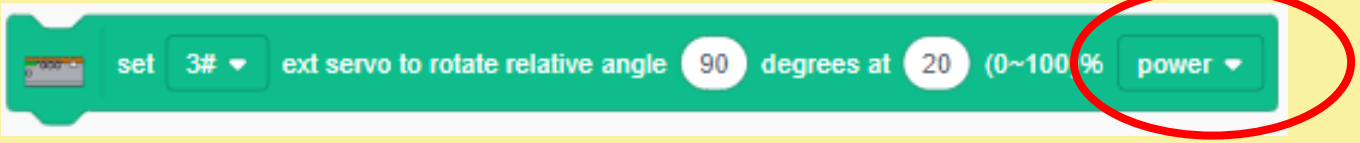


Task

Task 1 : Grab the item

After detecting the object, lower the robotic arm to ensure the item is fully grasped.





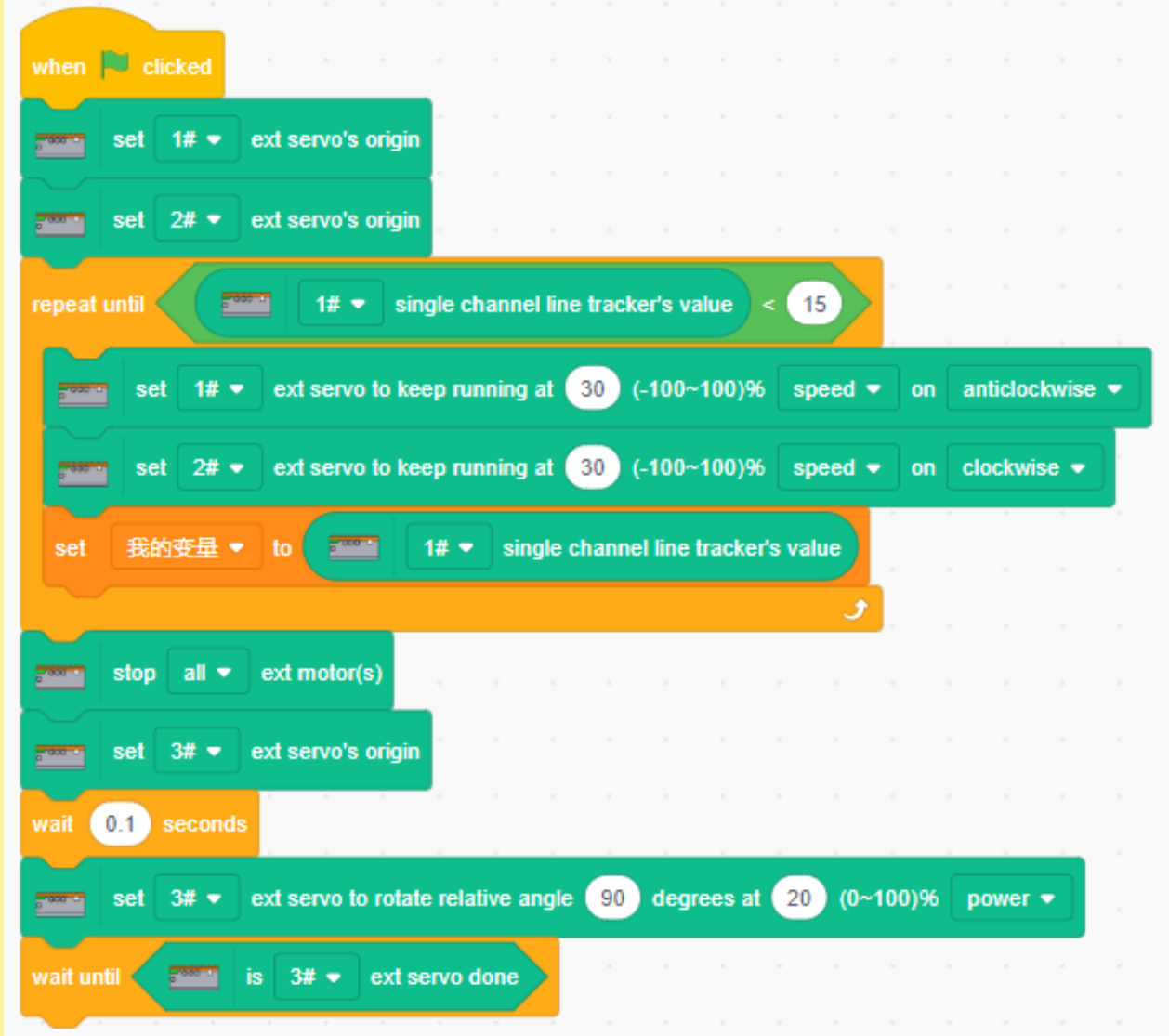
The robotic arm should move more slowly, so it's advisable to use Power mode to control it.

Task

Referrable Program

Still remember what the module is for?

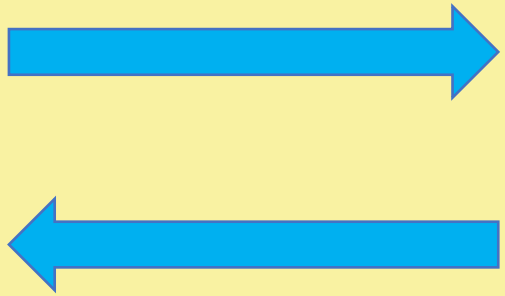
Pay attention to the selection of the motor IDs.



Task

Task 2 : Carry the item

After carrying the item to the front, lift the robotic arm and return to the starting point.

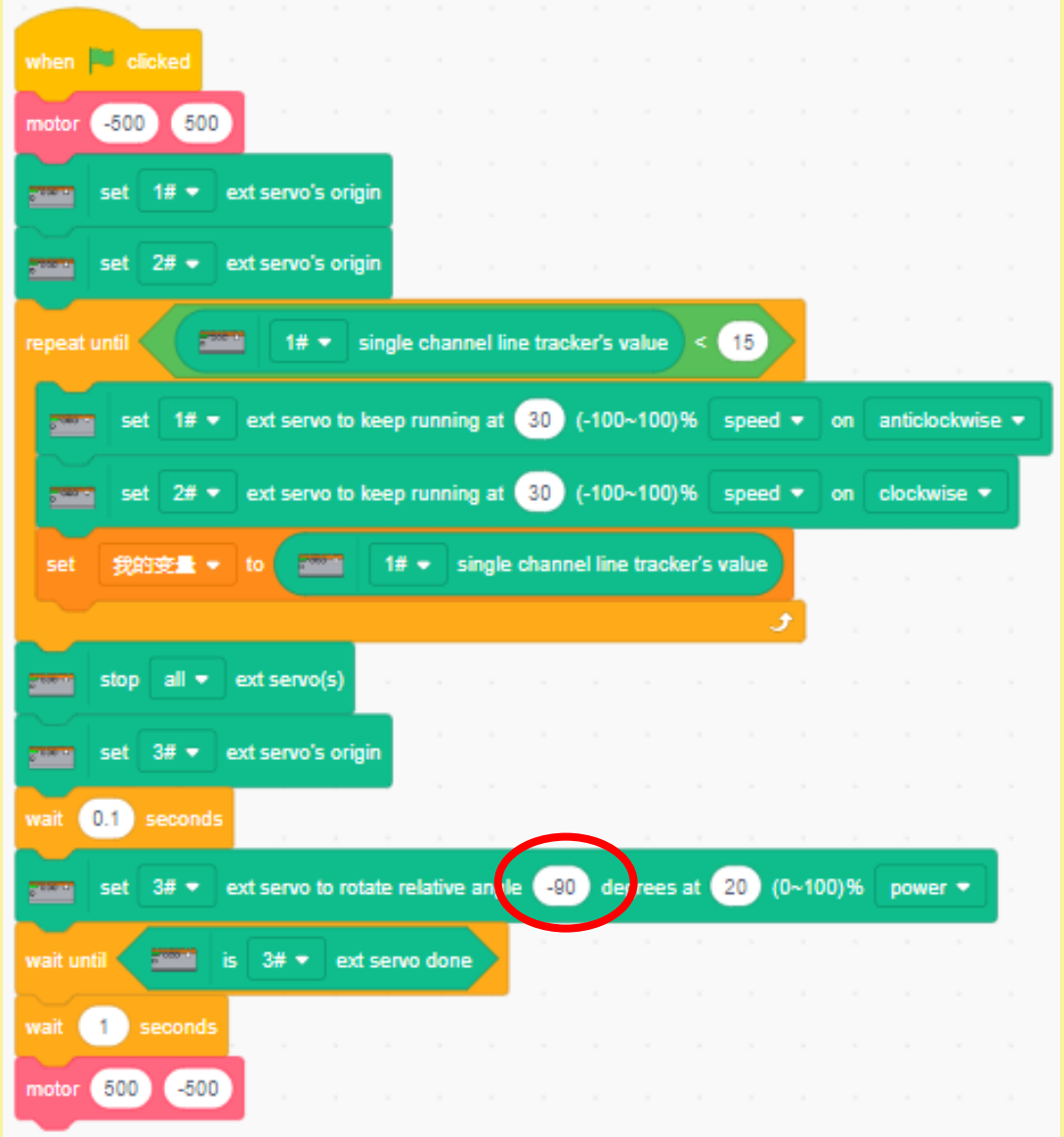


Task

Referrable Program

Remember what the module is for?

Pay attention to the direction of the robotic arm.



Task

Task 3： Carry the item

Advance to obtain the item, carry it to the designated location, release the item, and return to the starting point.