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

See Lesson 1 for complete instruction

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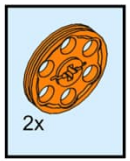

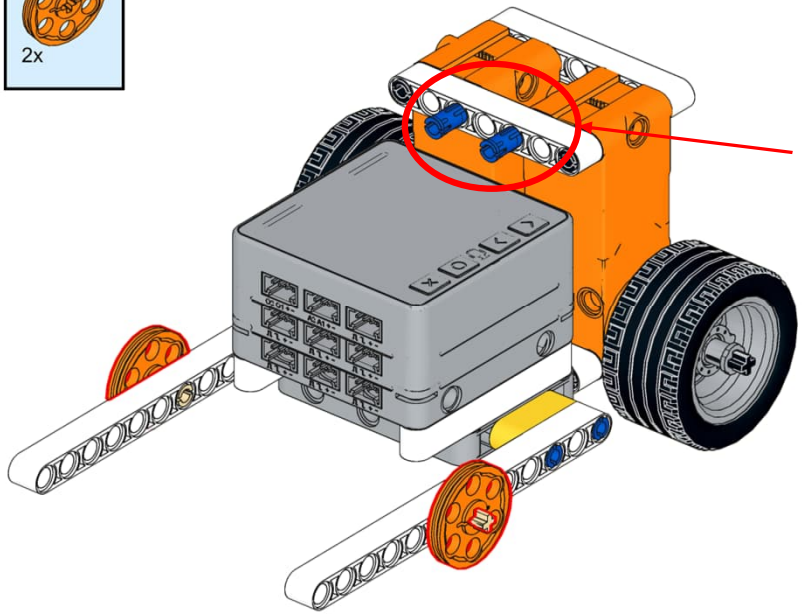

Replace the two-pin connector with a three-pin connector

Assembly

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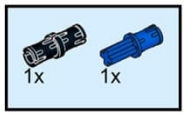

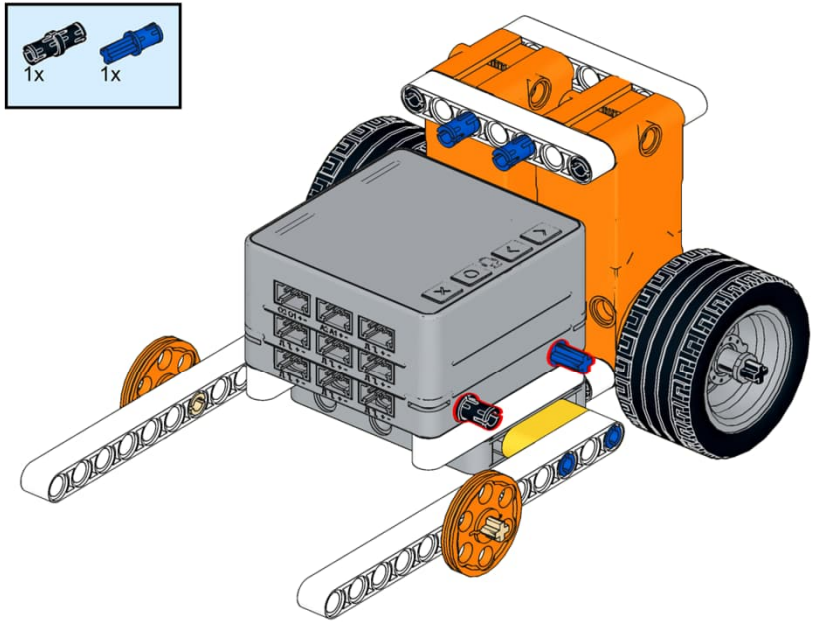

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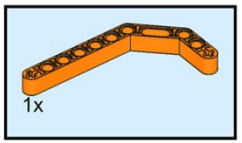

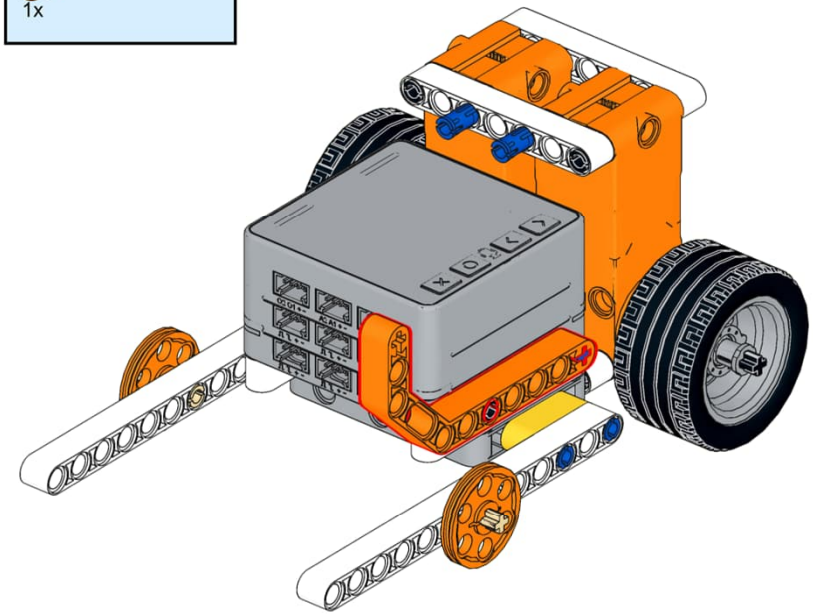

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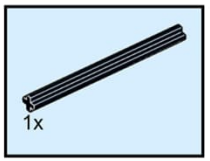

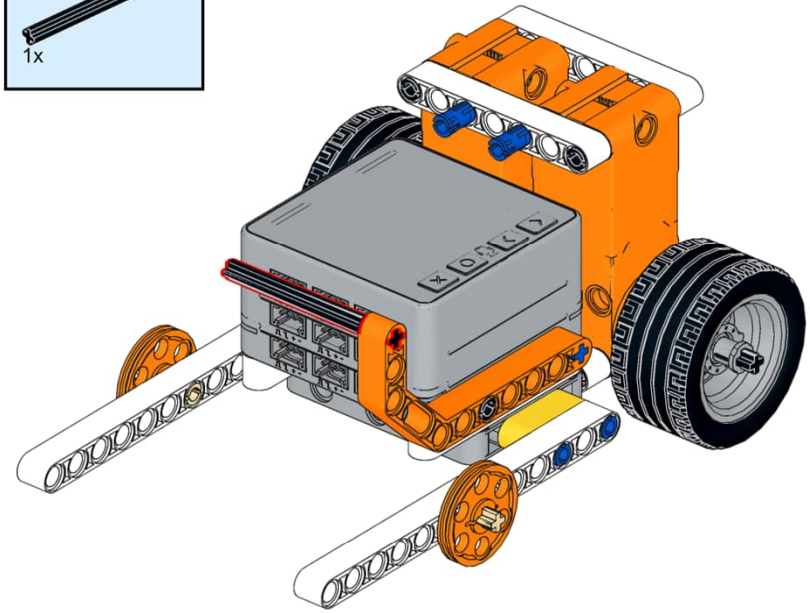

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Assembly

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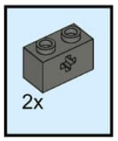

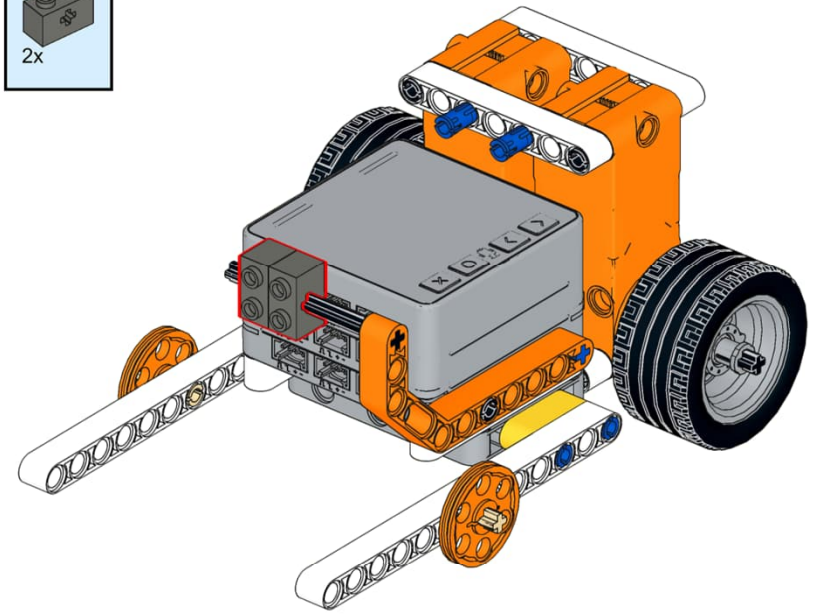

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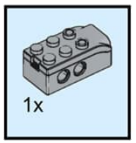

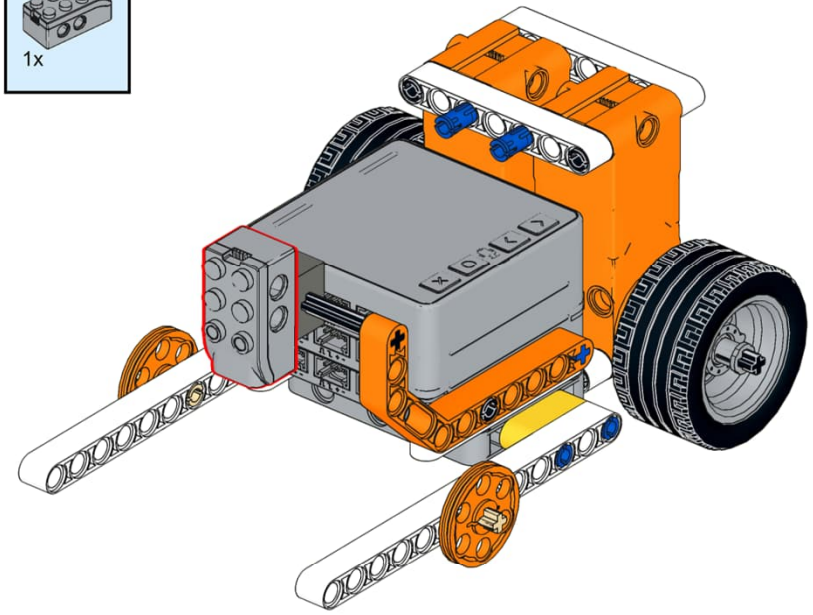

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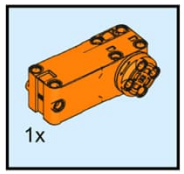

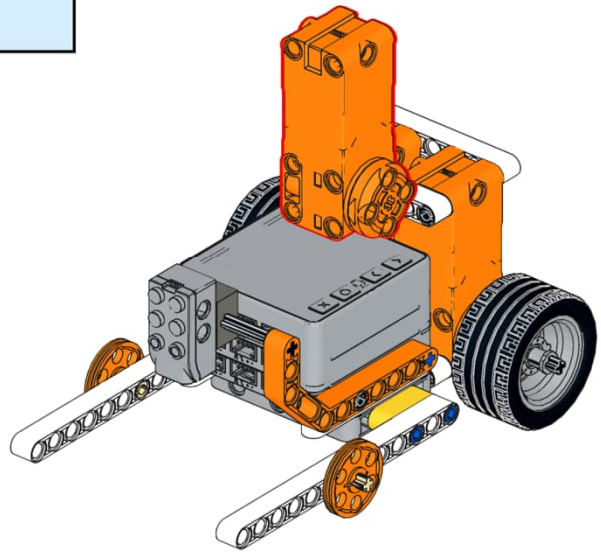

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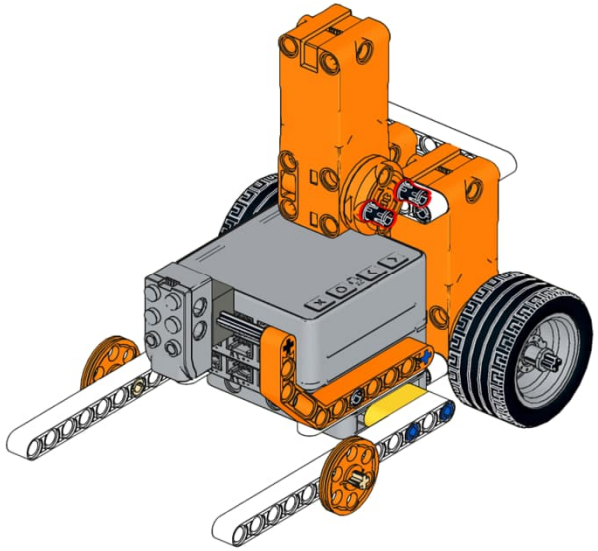

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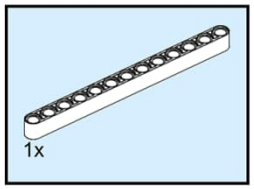

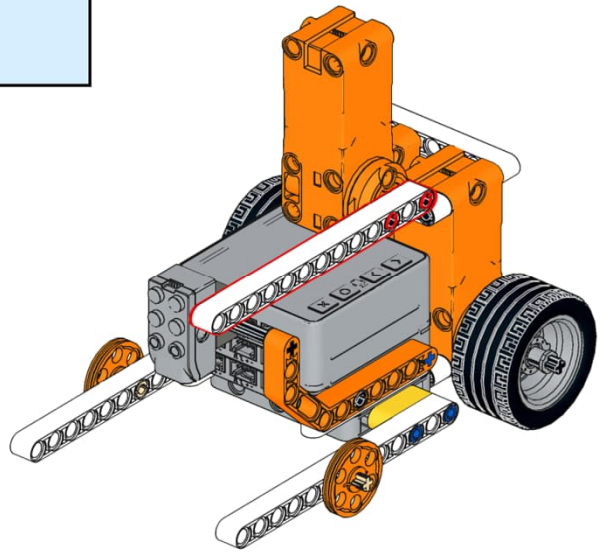

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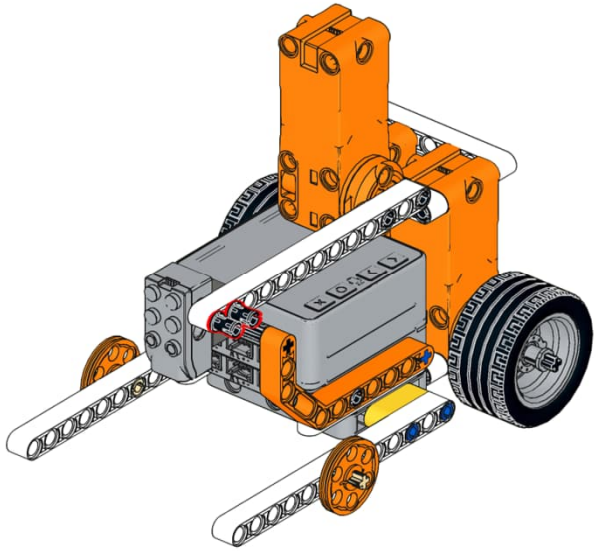

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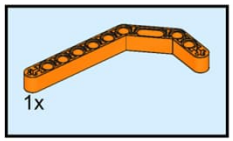

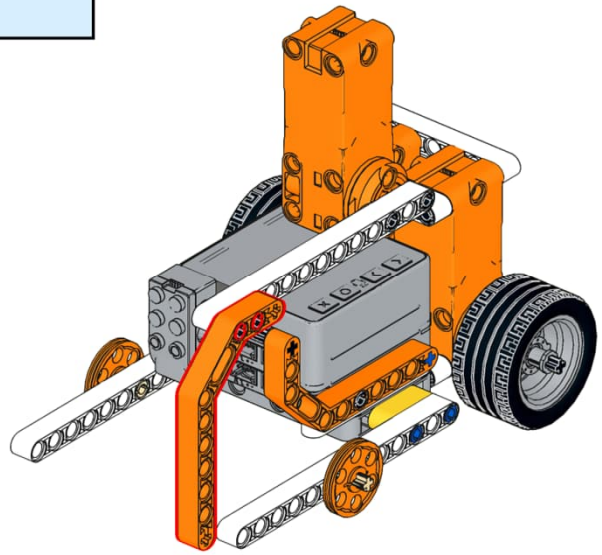

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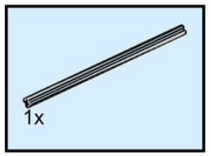

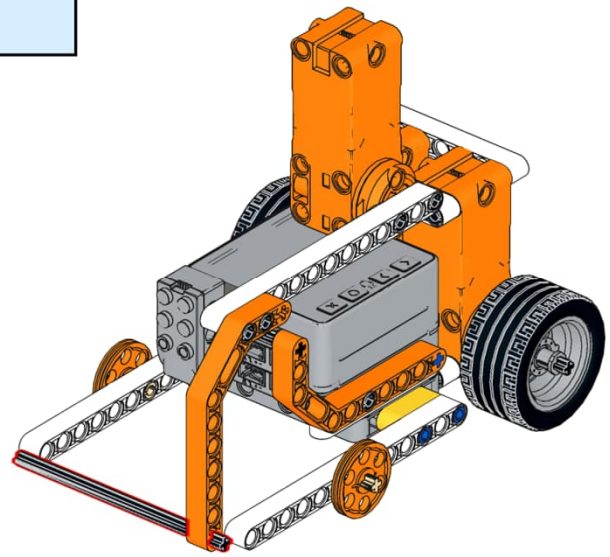

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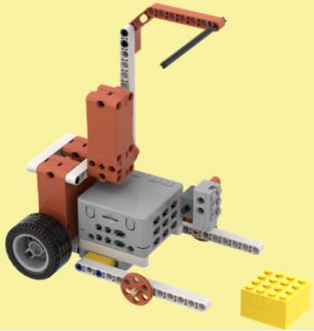
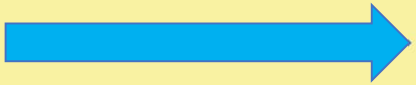
02 Task

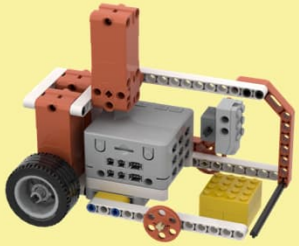
Task

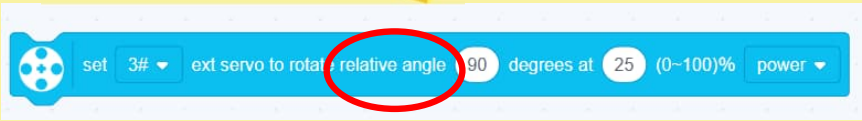
Task 1: Grab the item

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









1、Using relative angle control, the robotic arm can move at a slower speed.

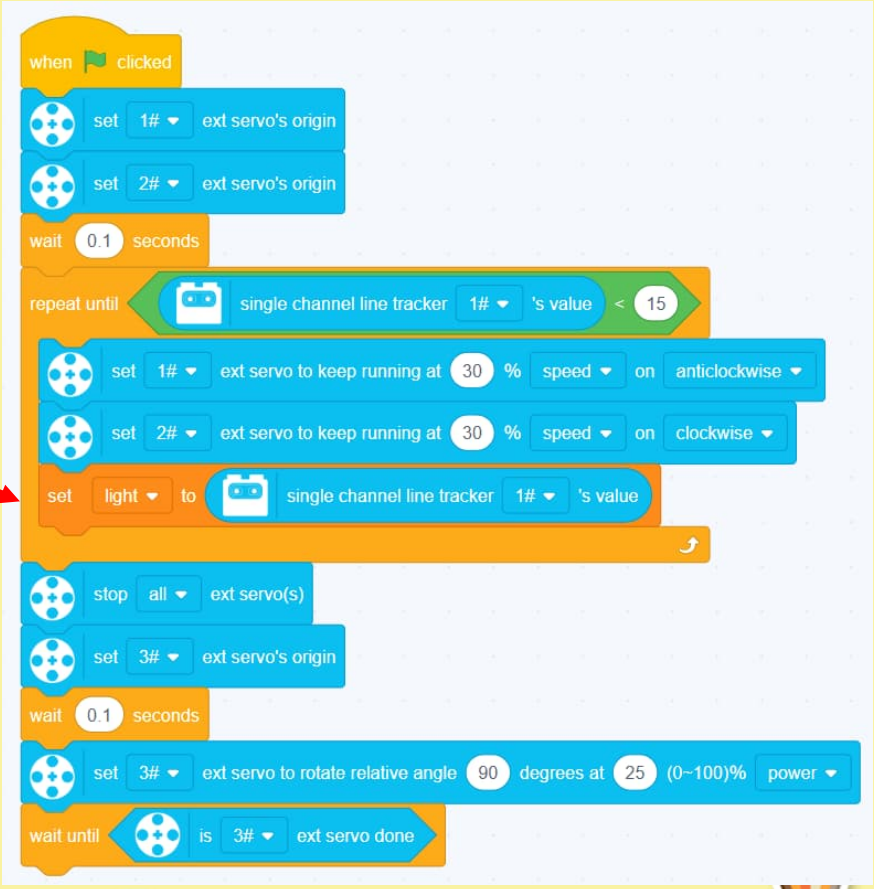
2、Using absolute angle control, pay attention to the zero position of the absolute angle.

Task

Referrable Program

Still remember what the module is for?

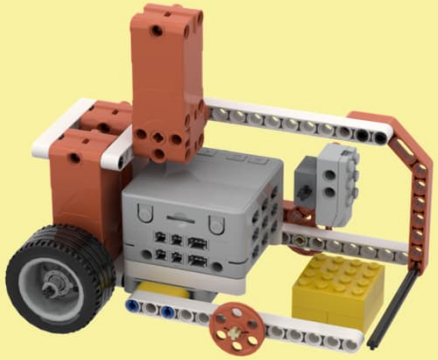
Pay attention to the selection of the motor IDs.

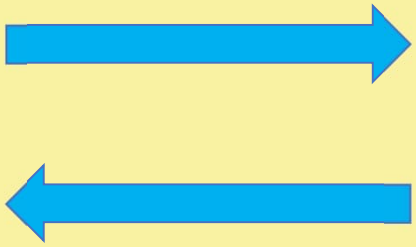


Task

Task 2: Carry the item

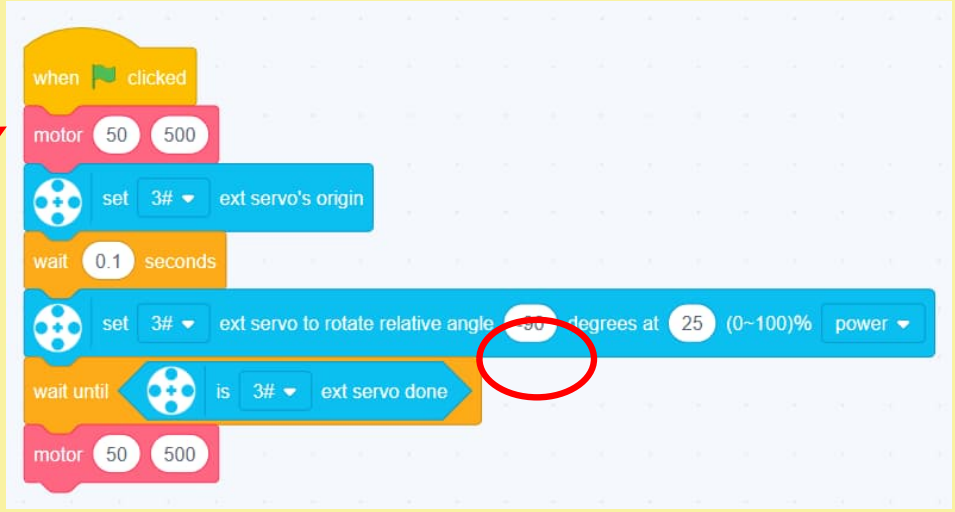
After carrying the item to the **front, lift the robotic arm** and return to the **starting point.**





Task

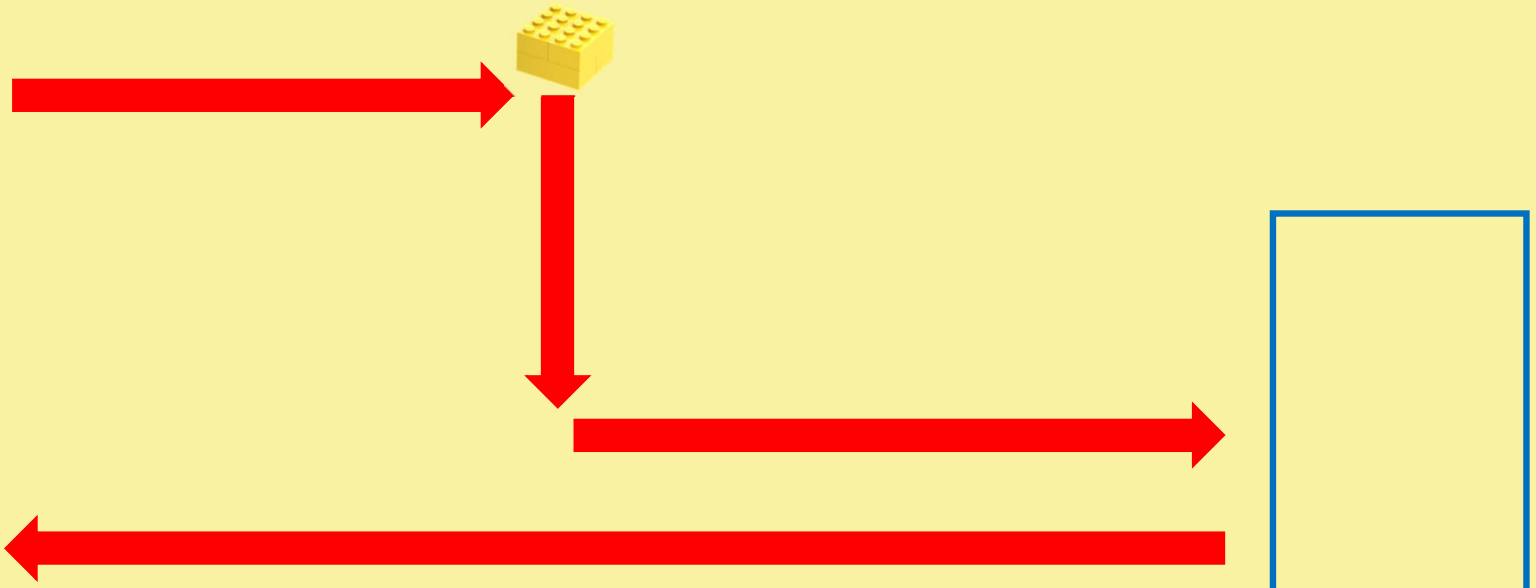
Referrable Program



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.