Give The Robot Vision

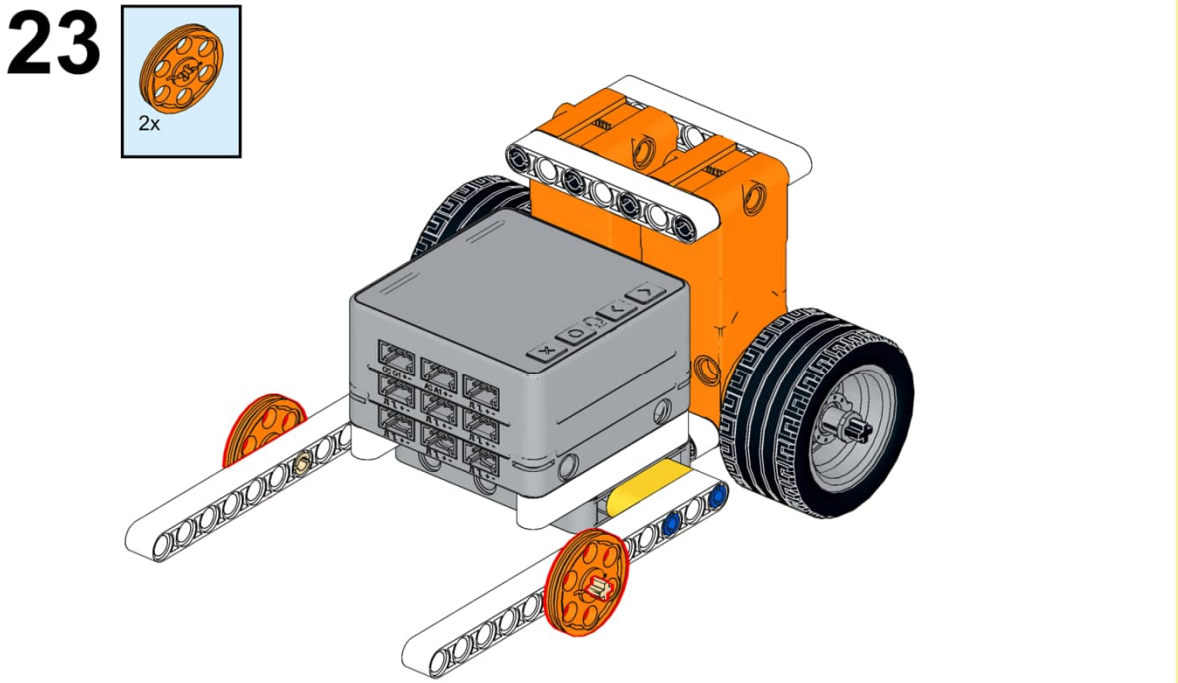
Target

- Complete the robot design and assembly according to the competition requirements.
- Learn how to install the grayscale sensor.
- Learn to use the grayscale sensor to detect obstacles.
- Learn to use the grayscale sensor to detect objects.

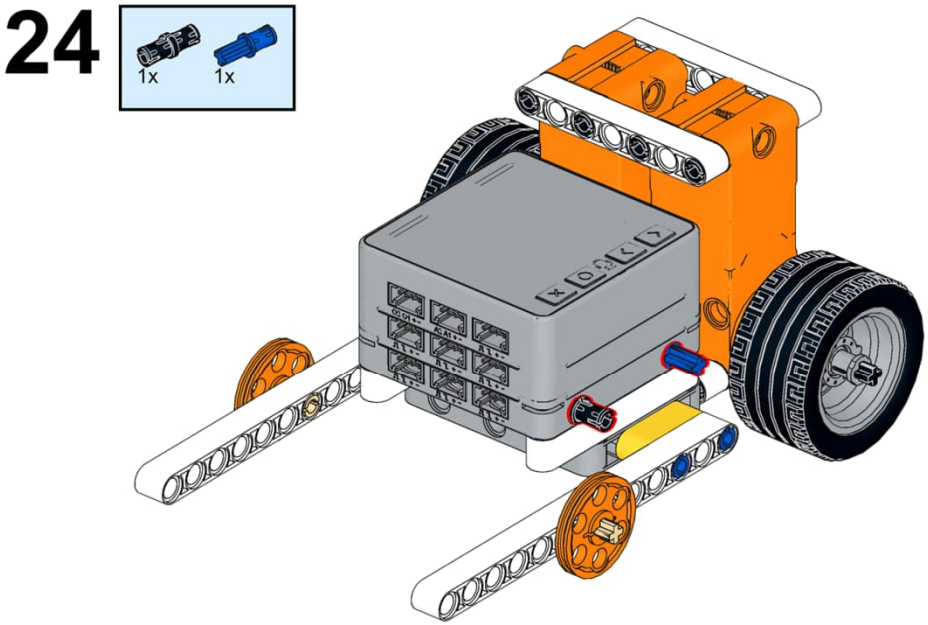
01 Assembly

Assembly

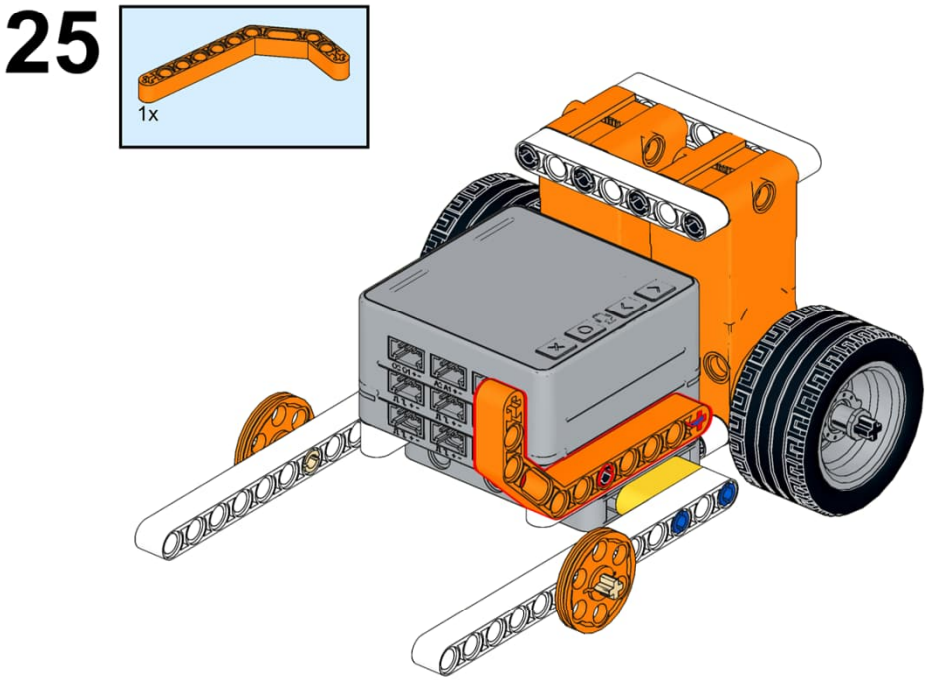
See Lesson 1 for complete instruction



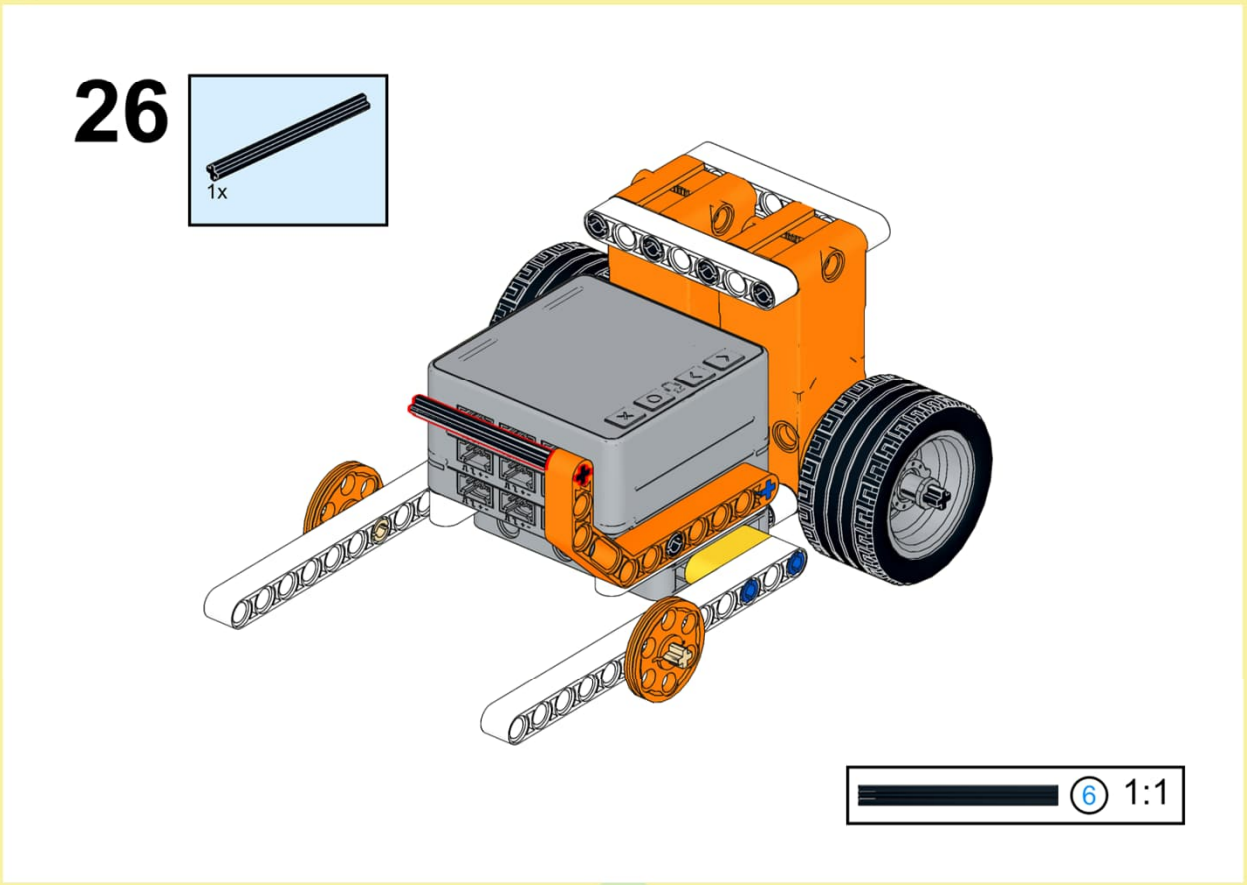
Installing Grayscale Sensor



Installing Grayscale Sensor



Installing Grayscale Sensor



Installing Grayscale Sensor

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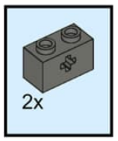
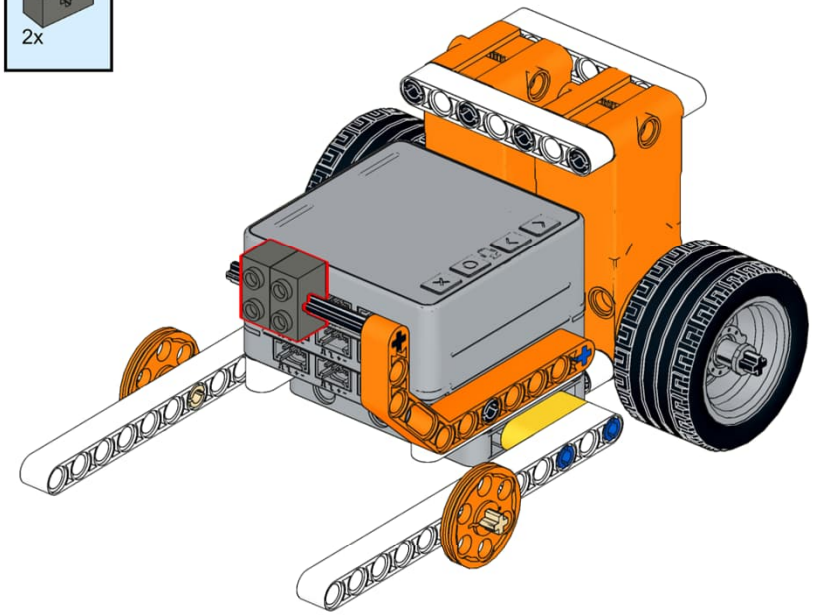
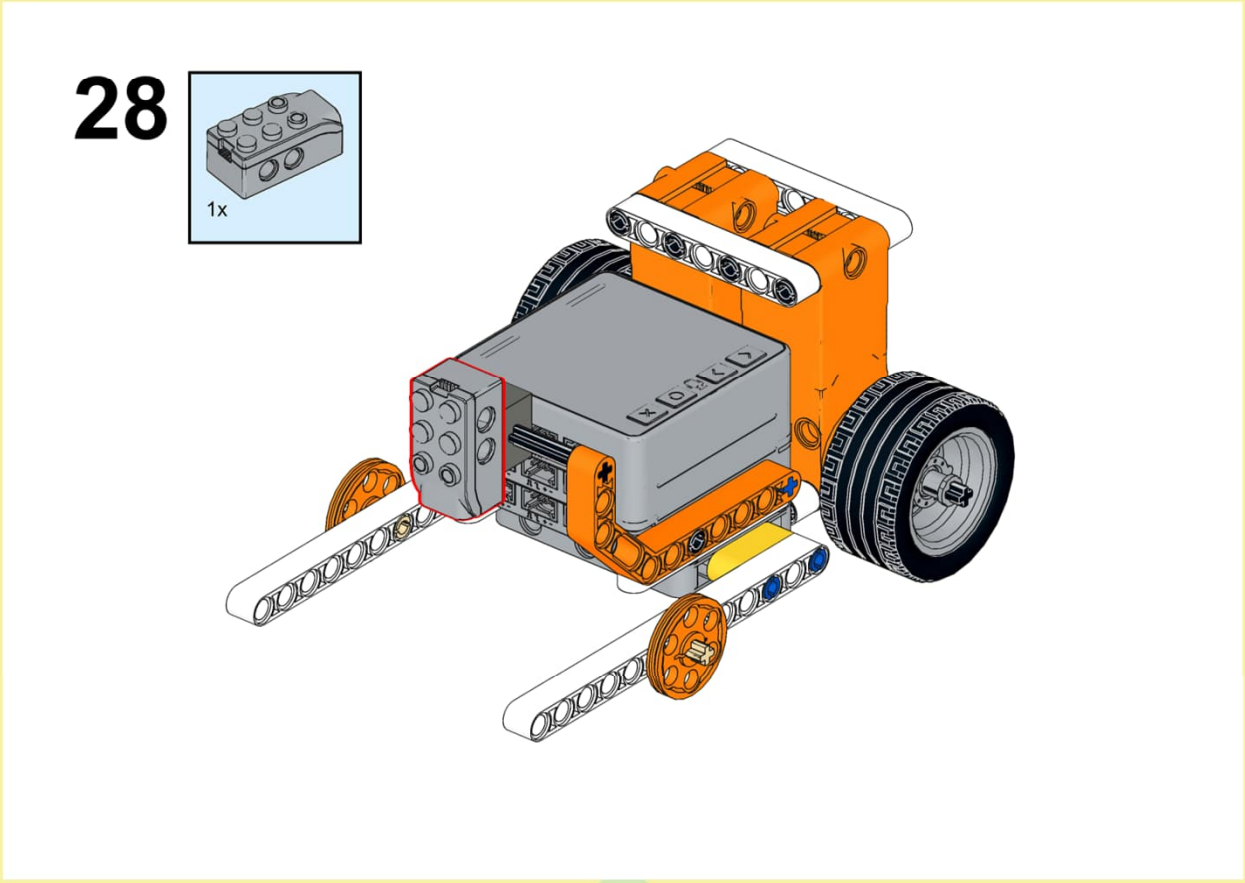




Installing Grayscale Sensor

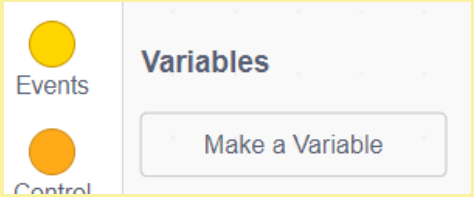


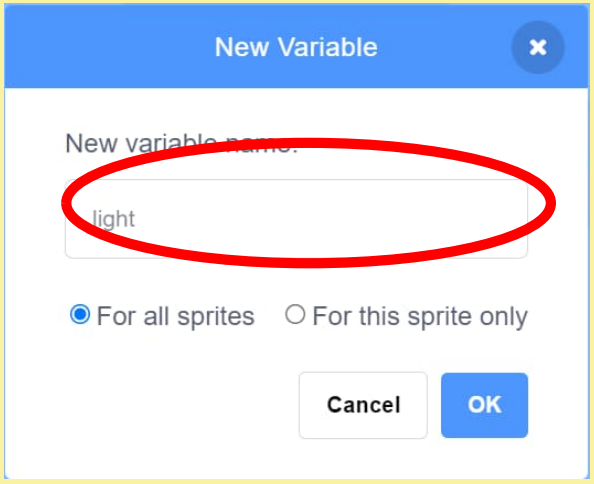
02 Task

Coding Technique 1

Using Variables and Viewing Sensor Values

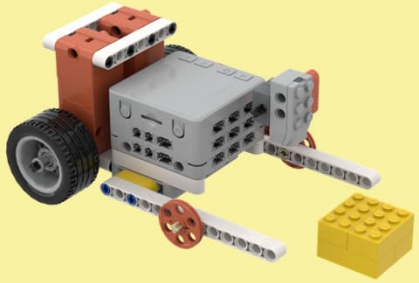
Note: Variable names should use only English letters.

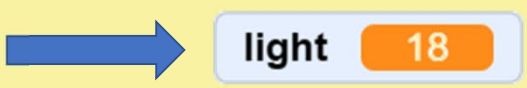




Coding Technique 1

变量使用方式与查看传感器数值





Pay close attention to the difference between detecting an item and not detecting an item.

Task

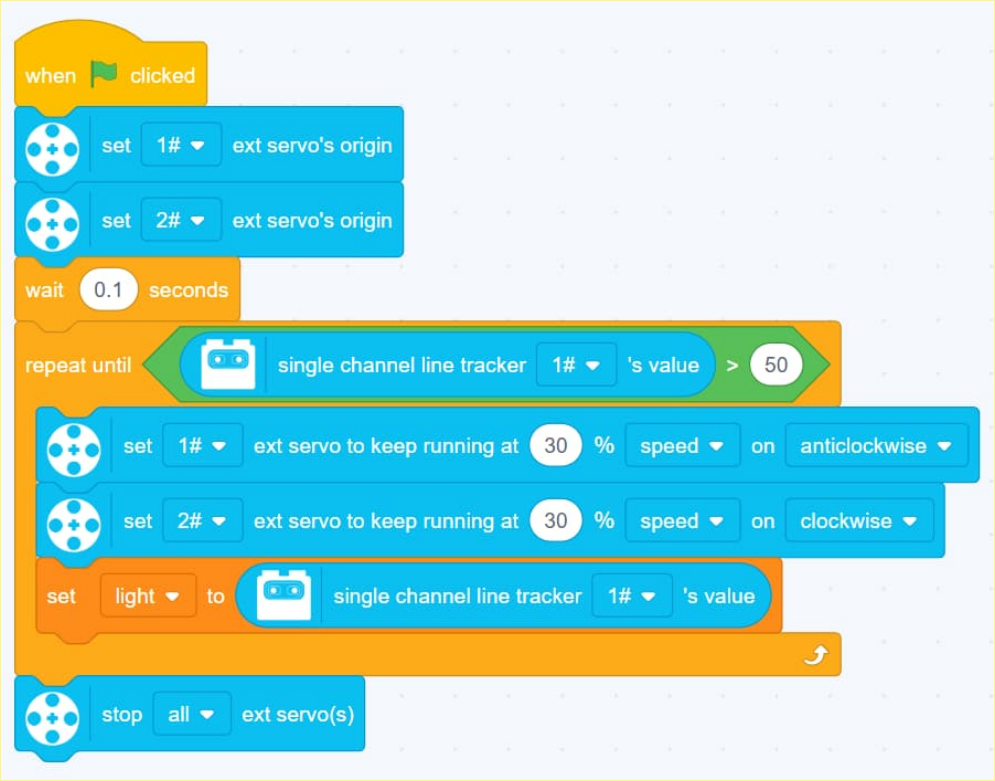
Task 1: Stop after retrieving the item.

Task

Referrable Program

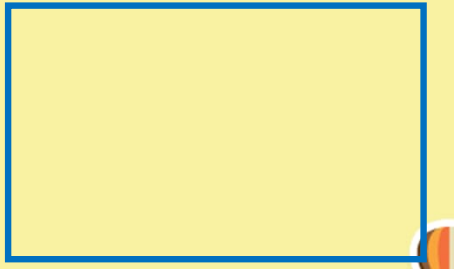
Using the "repeat until" control block is to synchronize the display of the sensor values.

A simpler approach is to use the "wait until" control block directly.



Task

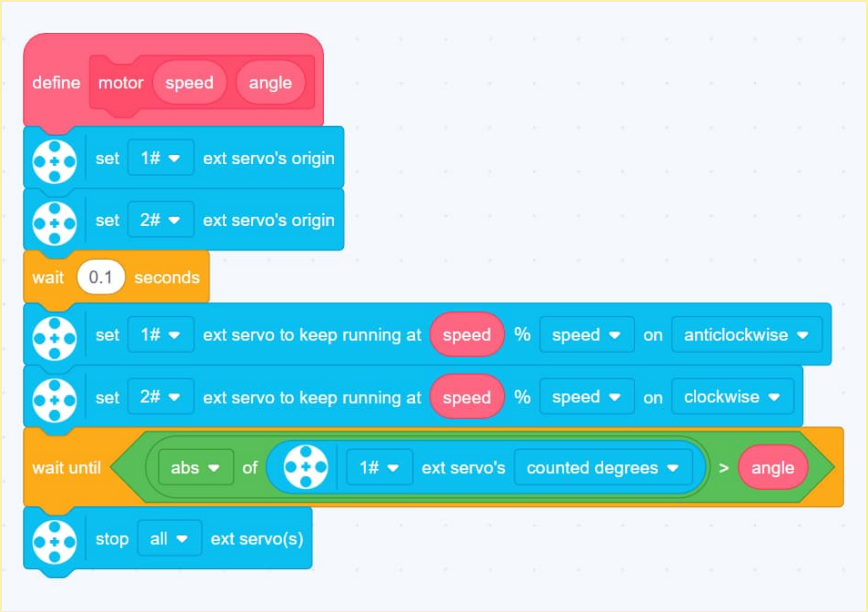
Task 2: After retrieving the item, carry it to the **designated location**.

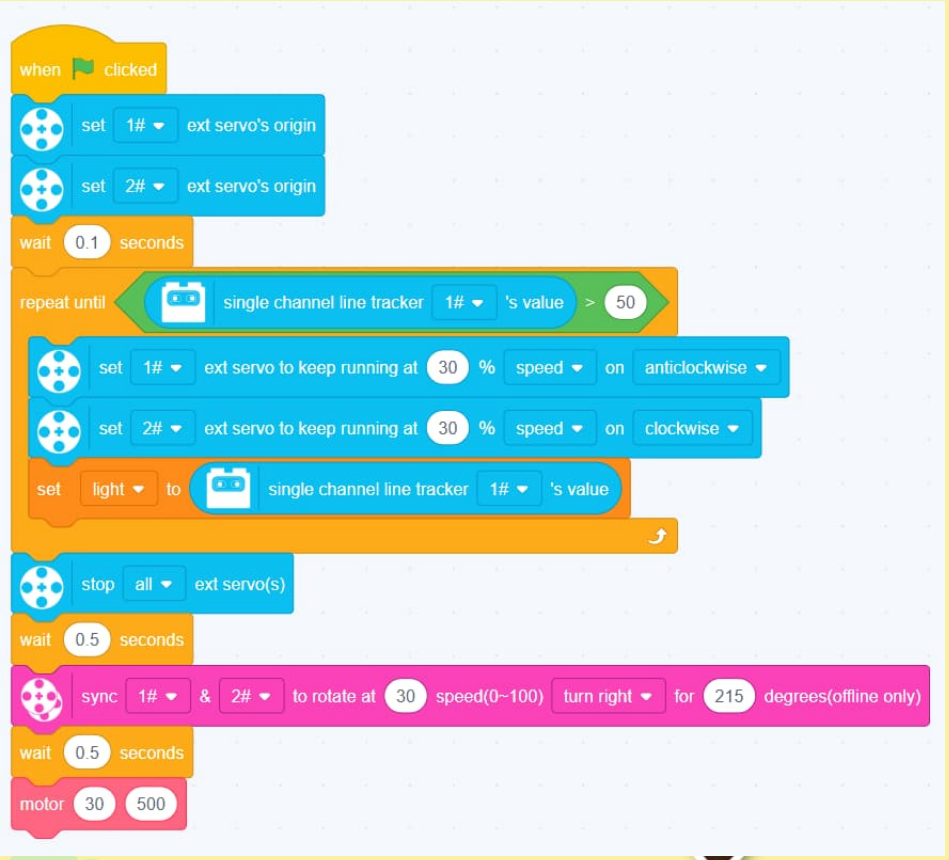


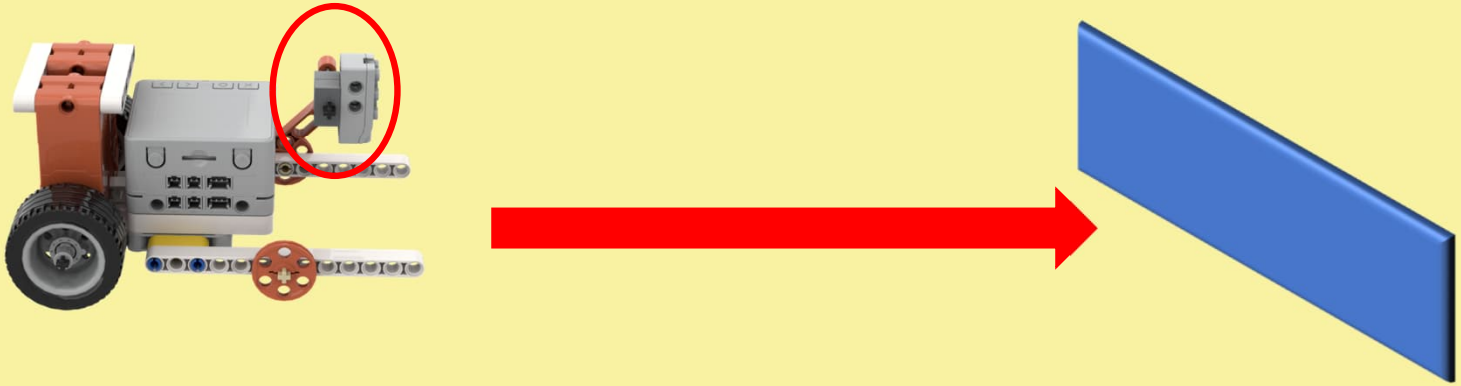
Task

Try to complete the subsequent actions using my module from the Lesson 4.

Referrable Program





Additional Task

Adjust the sensor to face directly forward, detect obstacles, and try to stop or maneuver around them.