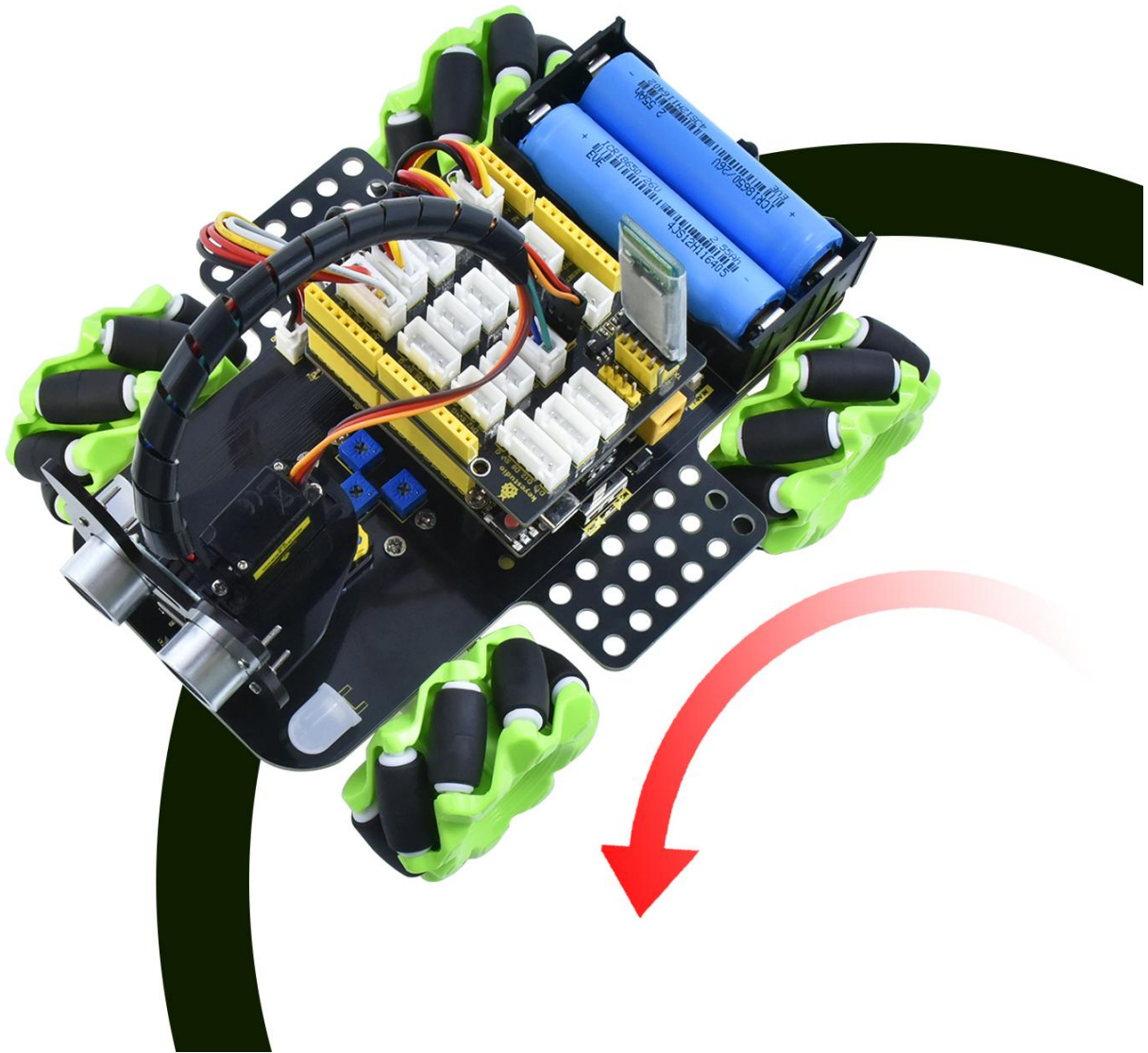


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Project 6: Line Tracking Smart Car



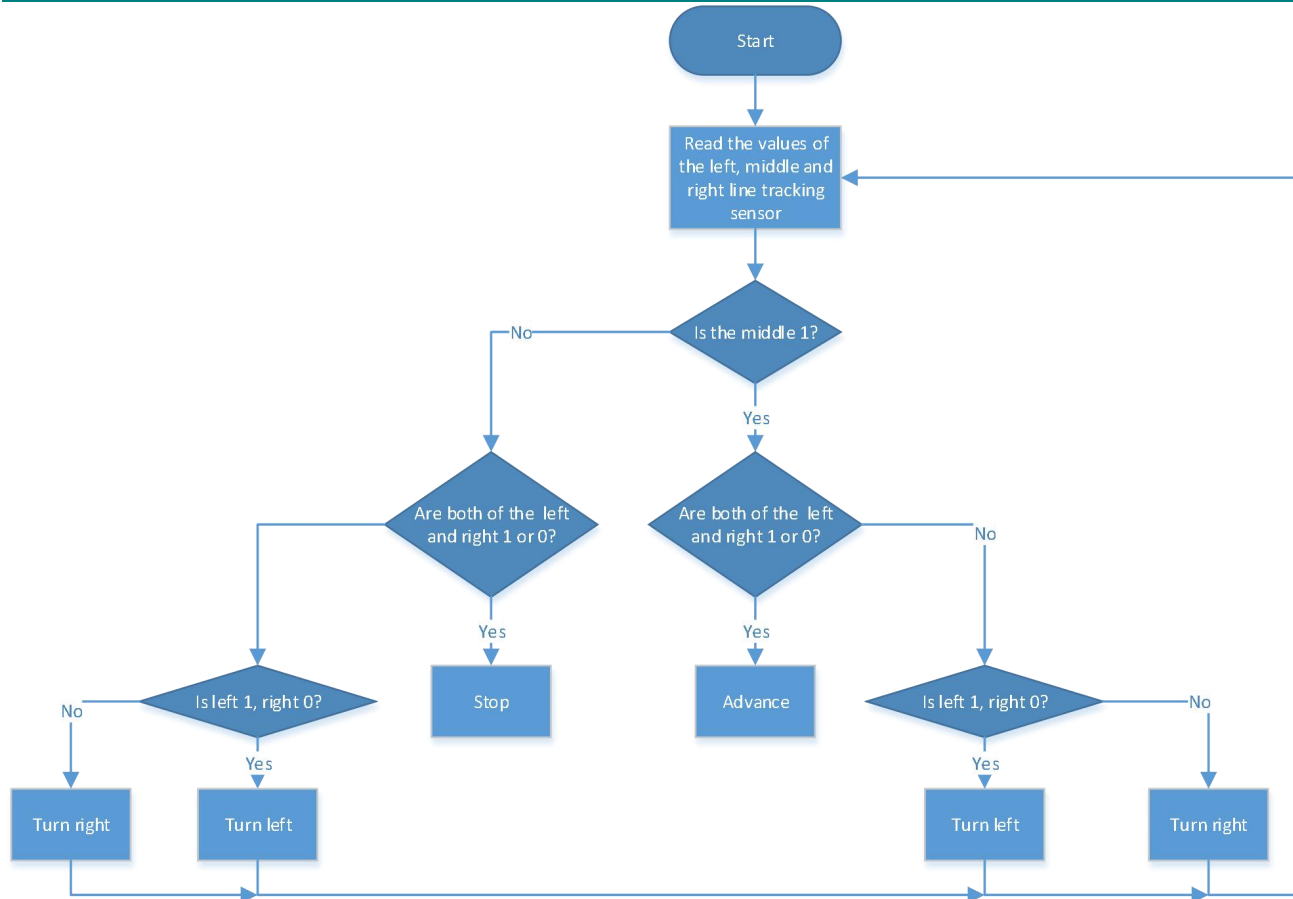
1. Description

In this project we will make a line tracking smart car. It works to use a line tracking sensor to detect the black track of the road, and the road surface detection signal is fed back to the control board. The control board analyzes and judges the collected signals, and timely controls the motor to adjust the direction of the car, making the car run automatically along the black track

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to realize the purpose of automatic tracking of the car.

2. Flow Diagram



3. Test Code

You can drag blocks to edit. Blocks listed below are for your reference



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(2)

Pins

- set pin 0 mode input
- set digital pin 0 out high
- set pwm pin 3 out 255
- read digital pin 0

(3)

Variable Type

- Declare Global variable Type int Name item Assigned to 0
- variable item
- Set item variable by 0

(4)

Operator

- = 50
- and

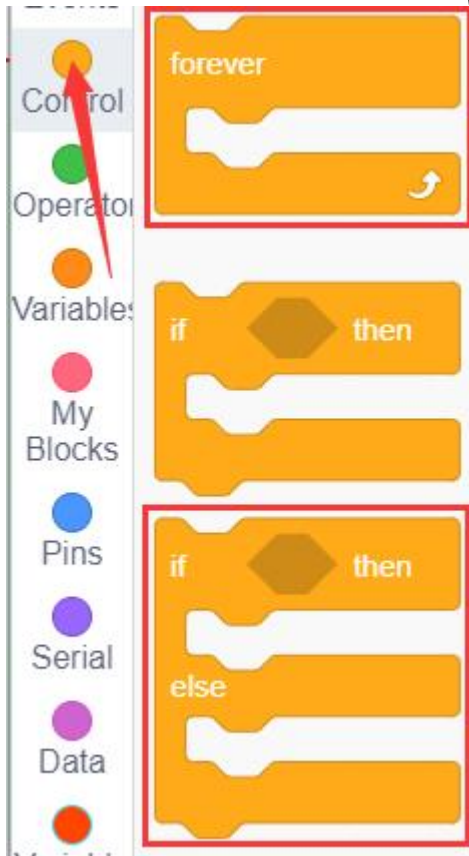
(5)

Car run

- Car State Advance

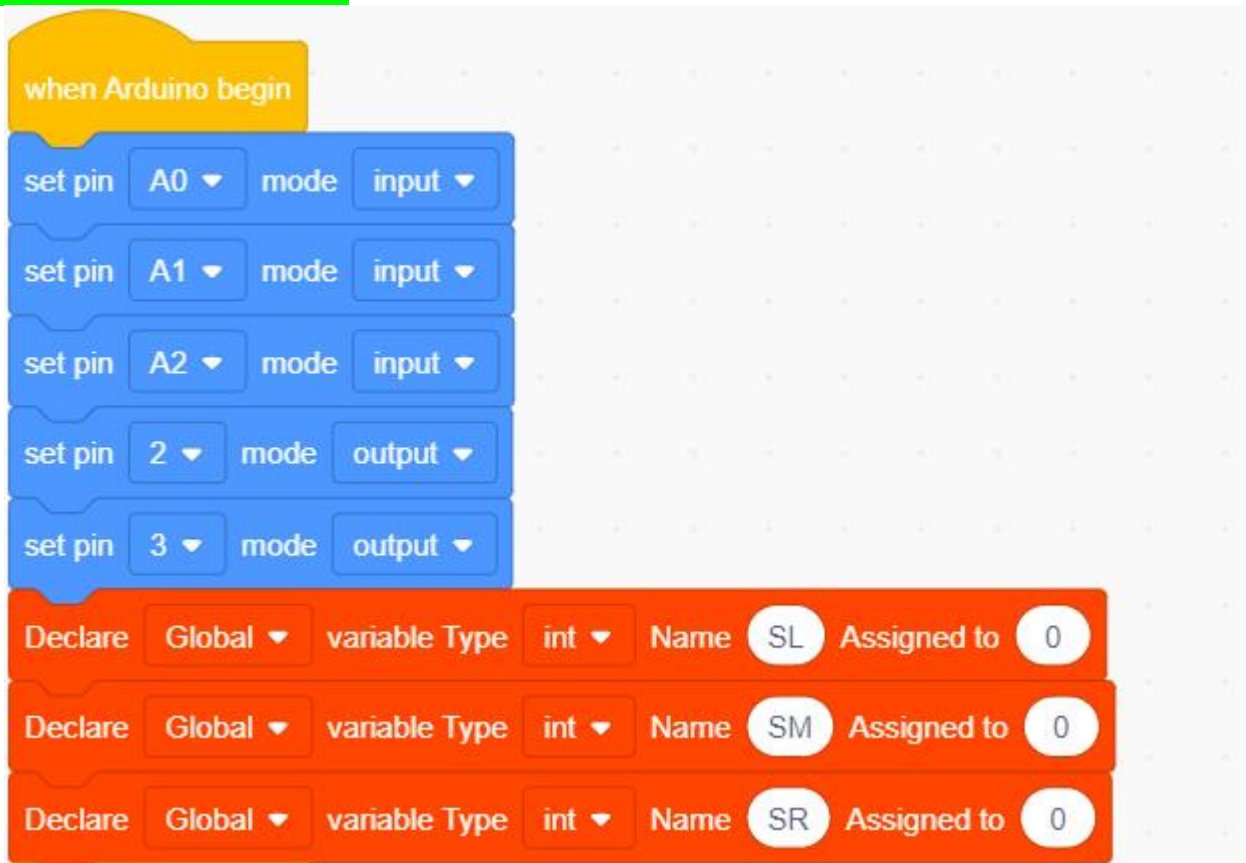
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(6)

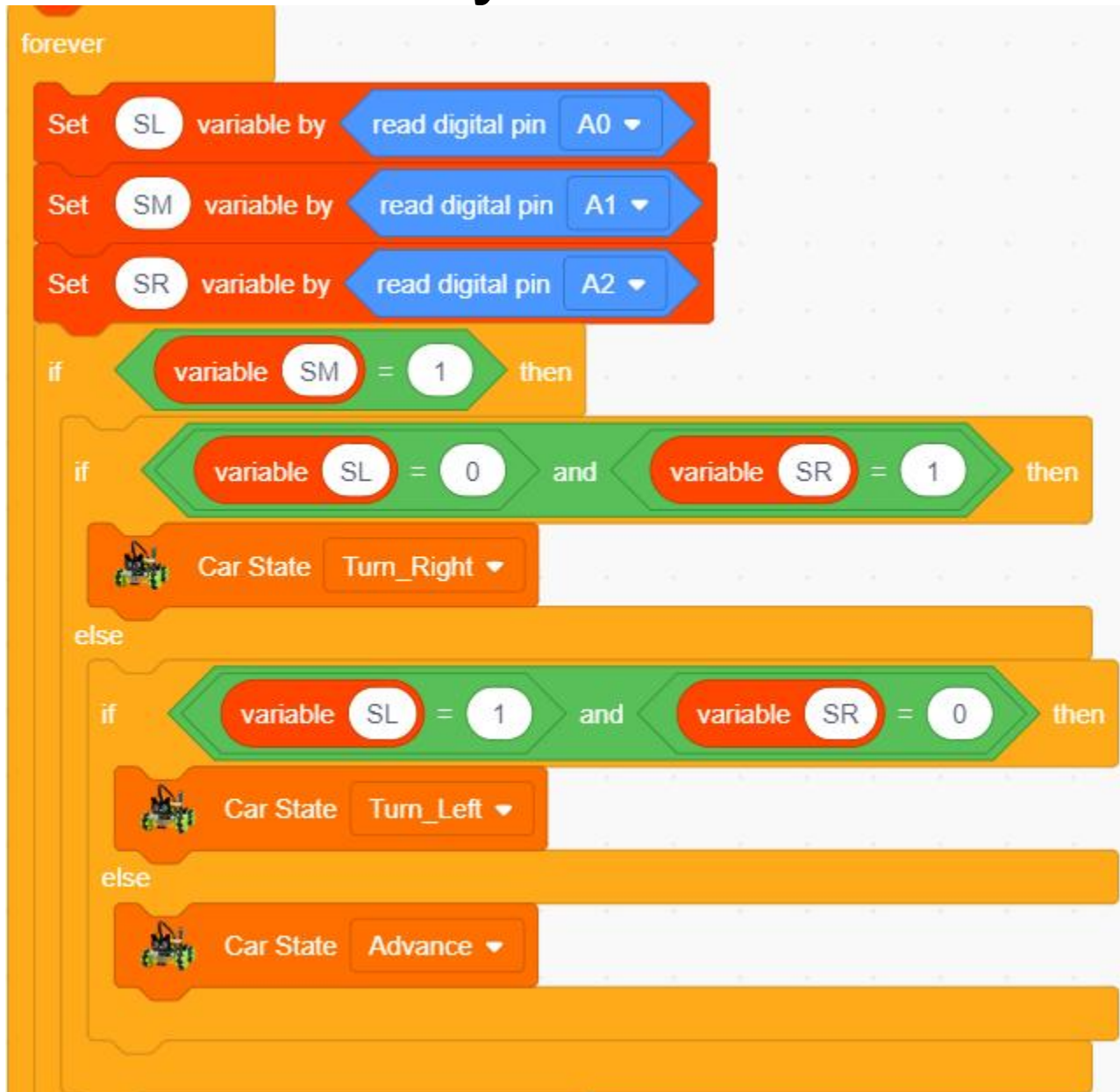


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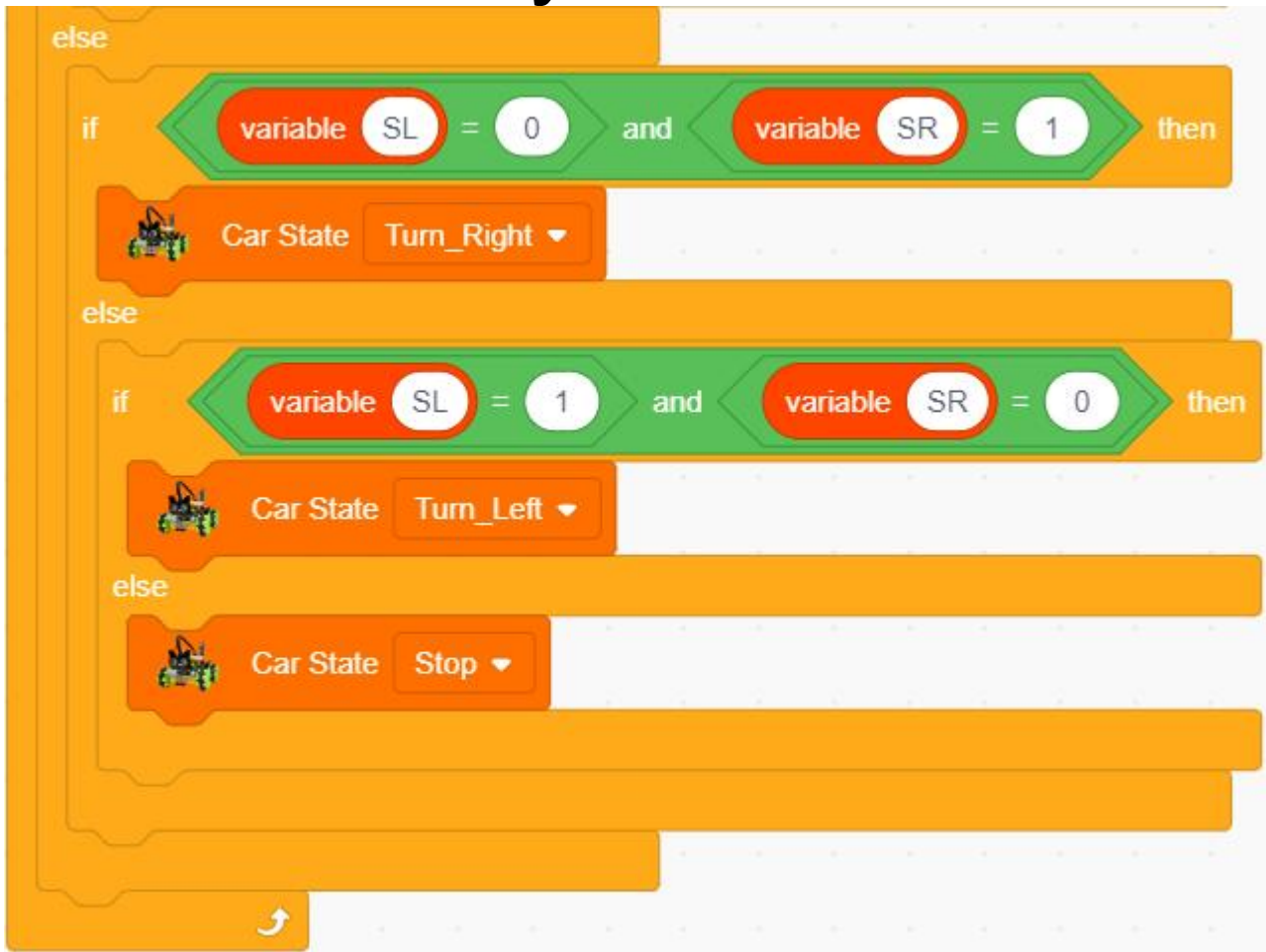
Complete Test Code



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4. Test Result

After uploading the test code successfully, turn the DIP switch to ON end and power up and the smart car will drive along the black line.