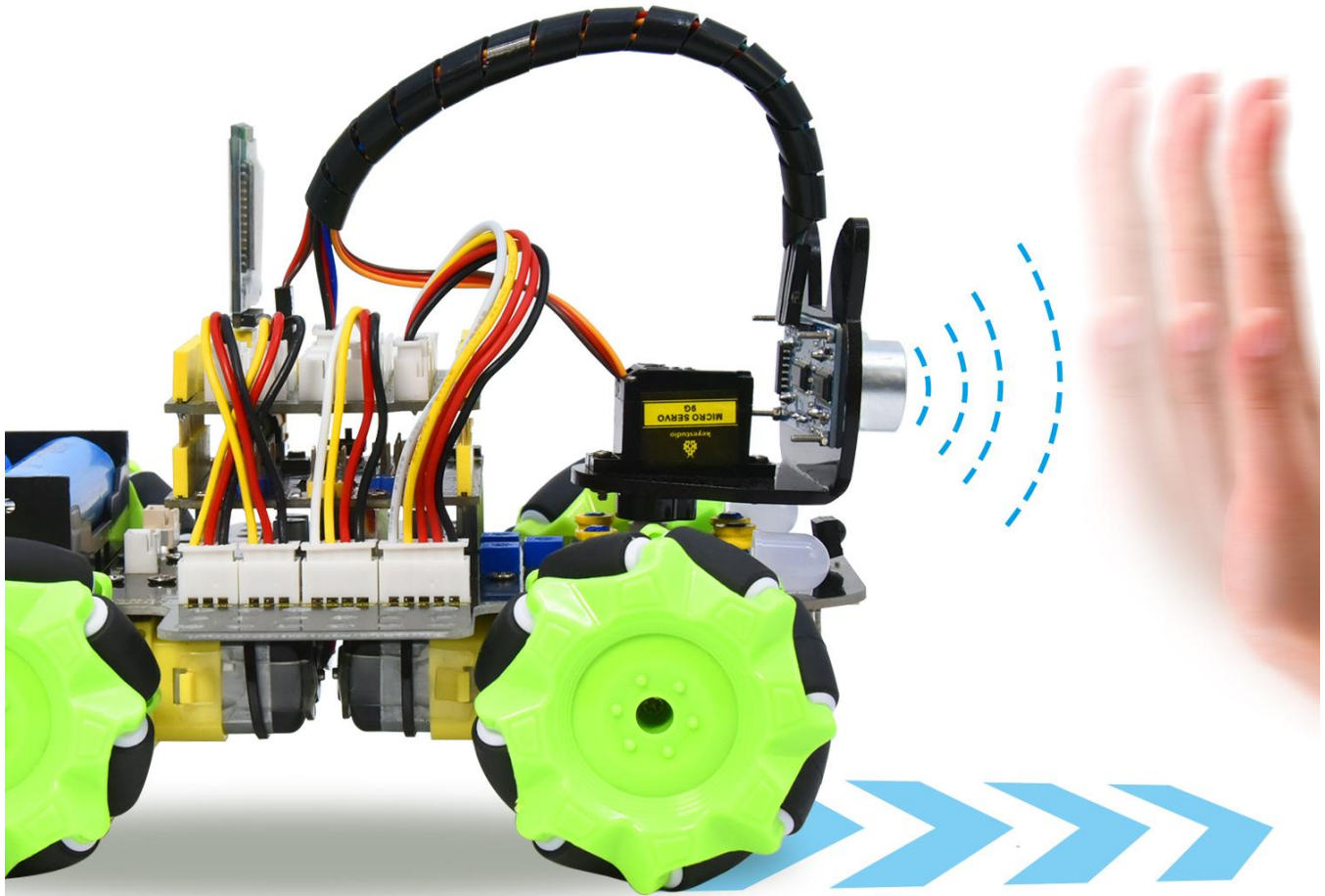


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Project 8: Ultrasonic Following Smart Car



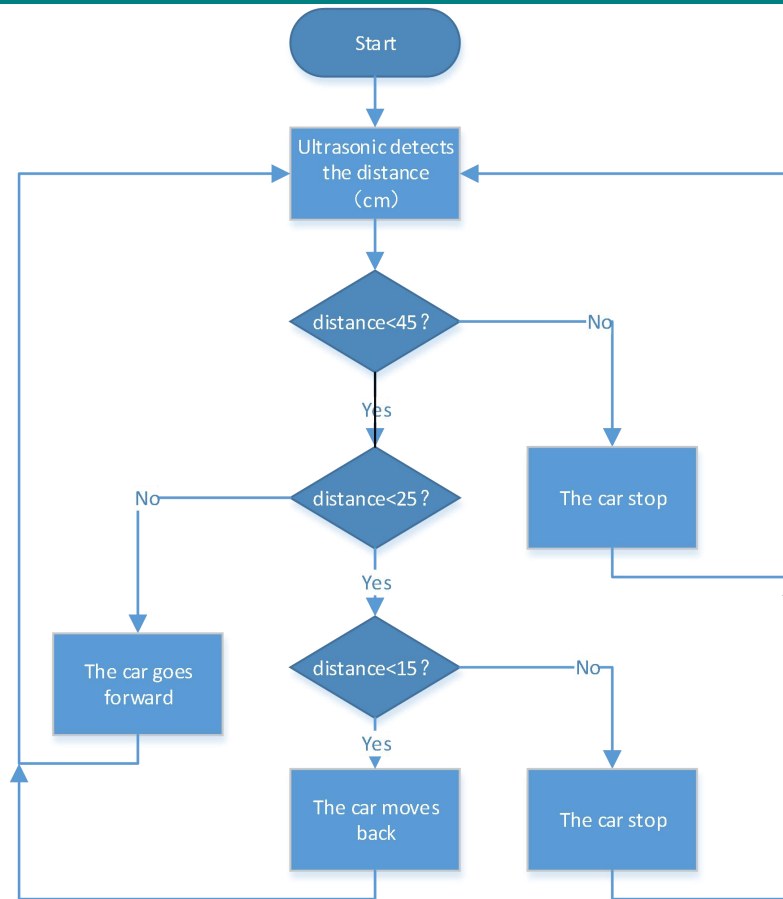
1. Description

In this project, we will work to combine an ultrasonic sensor with motors to make an automatic follow smart car.

The ultrasonic sensor detects the smart car and the obstacle distance to control the motion status of car.

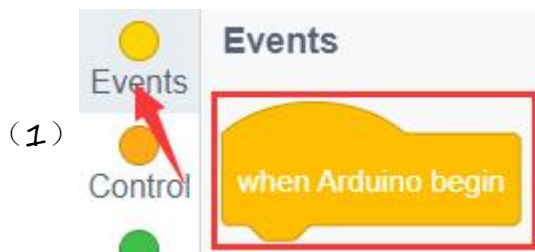
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2. Flow Diagram



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

(3) Ultrasonic

HC-SR04 trig pin 12 echo pin 13 read distance cm

(4) Car lights

Car lights left state on

(5) servo

servo PIN# 9 degree 90 delay 200

(6) Serial

serial begin baudrate 9600

serial print Hello KidsBlock warp

(7) Variable Type

Declare Global variable Type int Name item Assigned to 0

variable item

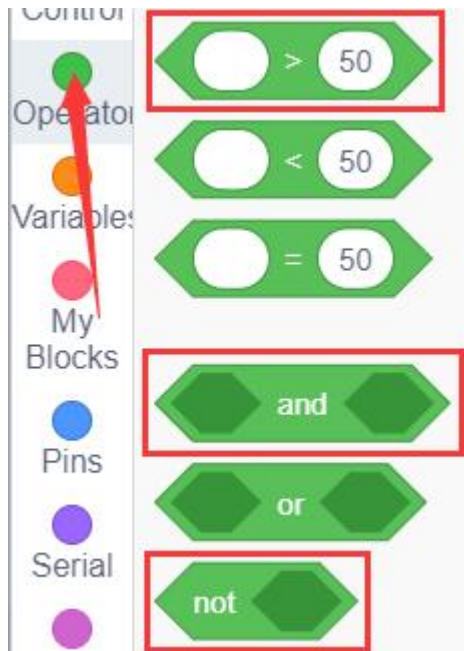
Set item variable by 0



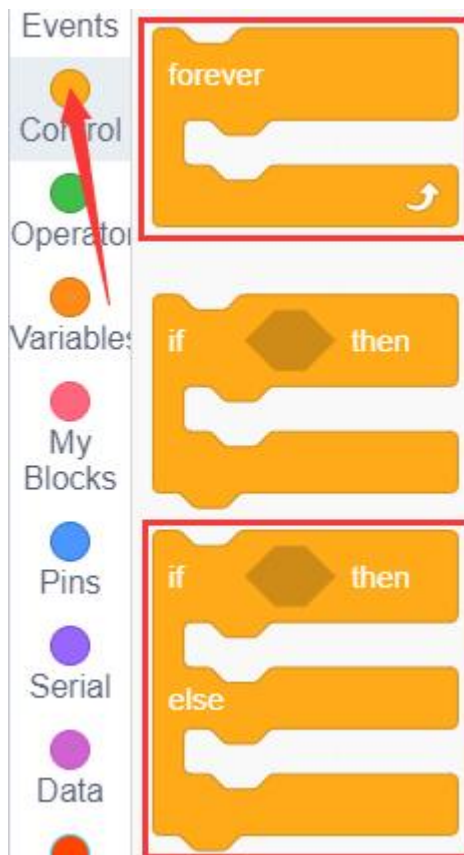
variable	value
item	0

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(8)

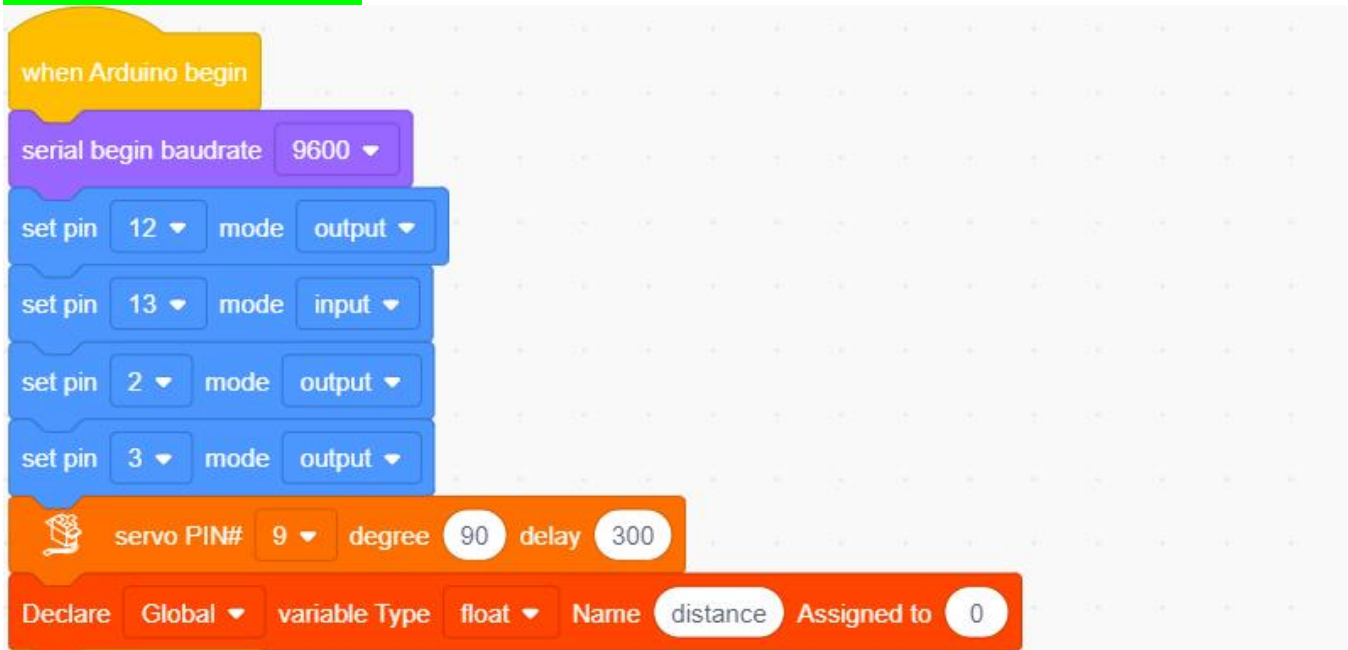


(9)

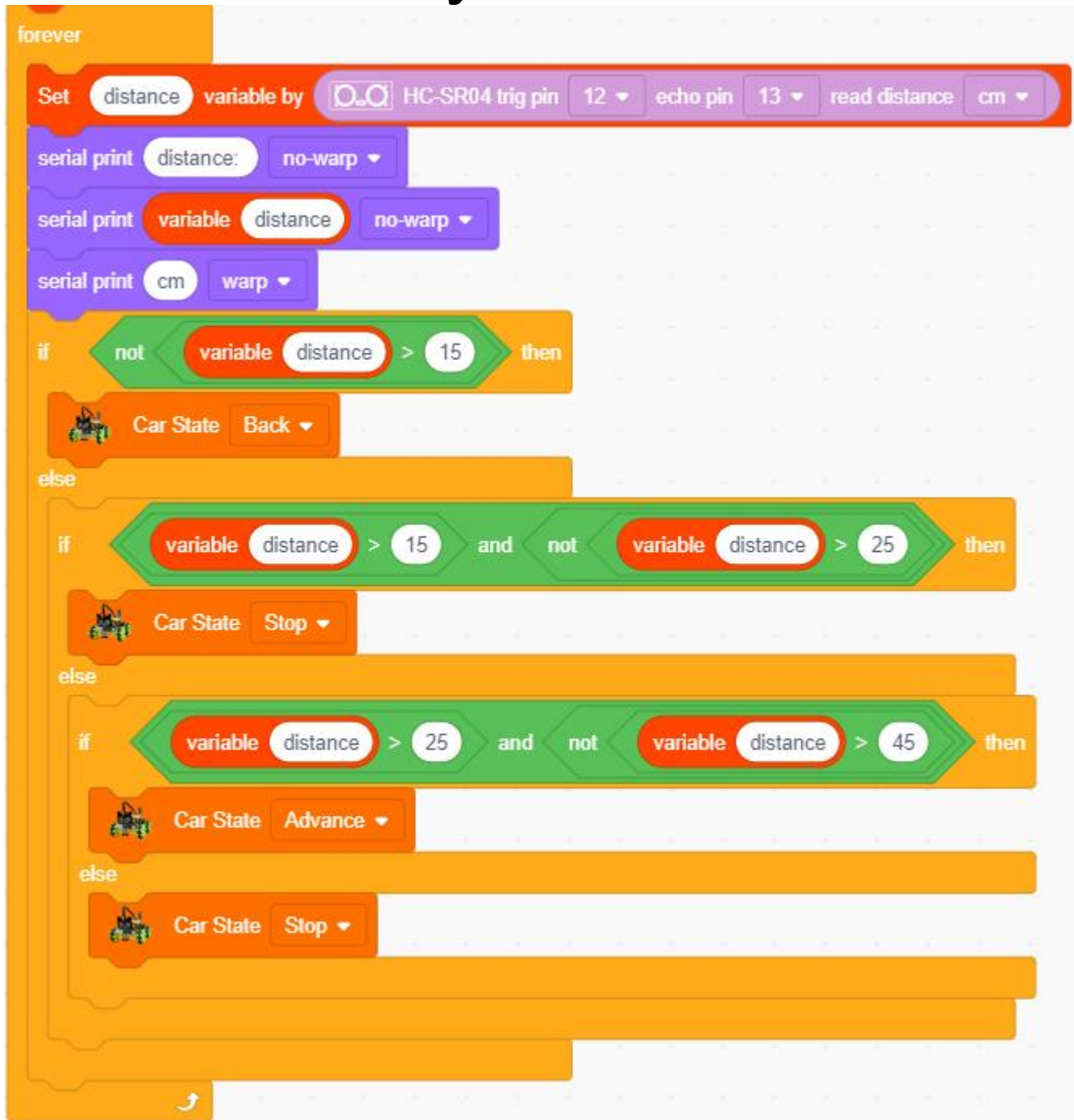


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Complete Test Code



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4.Test Result

After uploading the code successfully, turn the DIP switch to ON end and power on, then the car will follow in a straight line. We put the palm of our hand in front of the ultrasonic, slowly forward, the car will follow our palm to move.