Logic

Space

Coding

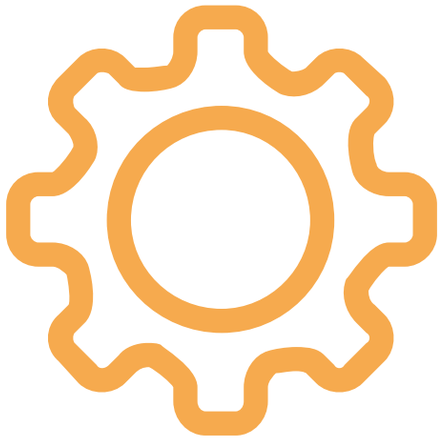
Focus

Classroom Discipline

01 Please sit down and keep quiet in class.

02 Please raise your hand if you have any questions

03 Please observe carefully when the pictures are played.



Racing Car

Course Goals

Thinkidea

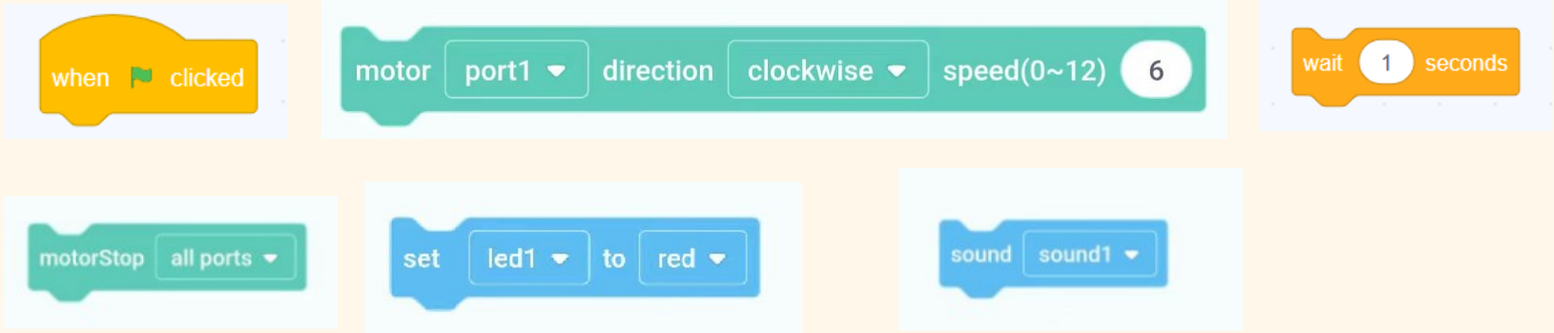
1. Learning goals
2. Project Discussion
3. Logic Programming
4. Have a try
5. Consolidate and extend

1

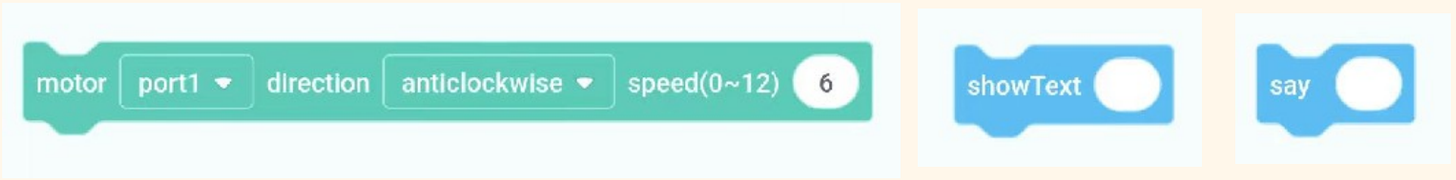
1. Create a car club, let the car can automatically move forward and backward at a specified time.
2. Consolidate modules such as "**motor clockwise**", "**wait 6 seconds**", "**forever**", and "**light**".
3. Learn new modules such as "**motor counterclockwise**", "**showText**", and "**say**".
4. Comprehensively apply the learned modules to complete programming projects and expand.

1

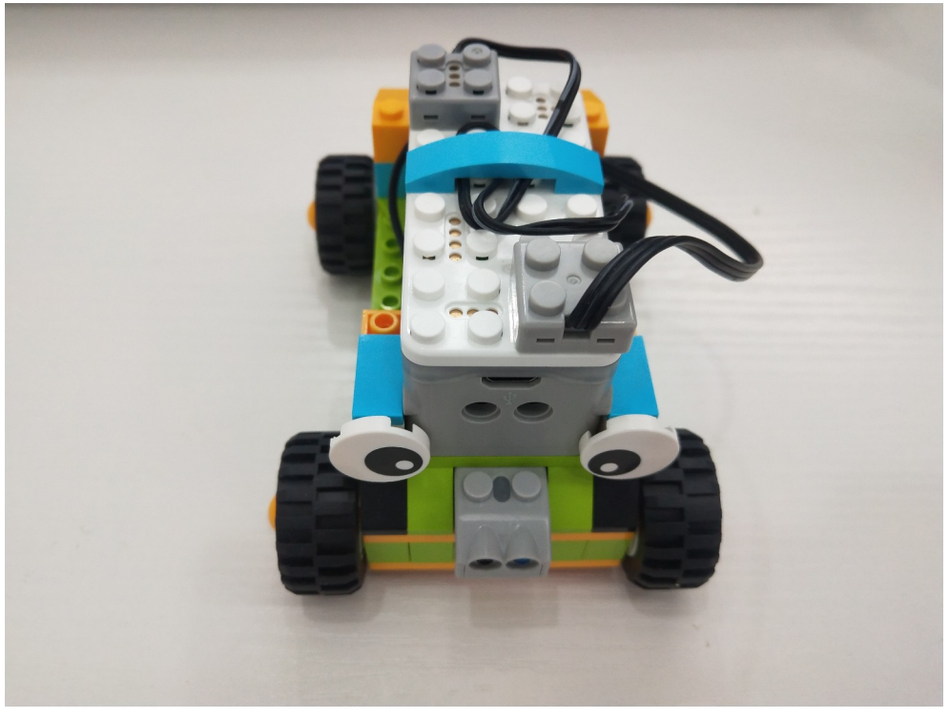
Consolidate modules:



New modules:



2



Project Discussion

1.Let the car show “321 “, then say “go” .

2.Let the car turn on the green light and move forward for 3 seconds.

3.Let the car say “go back” .

4.Let the car turn on the red light.

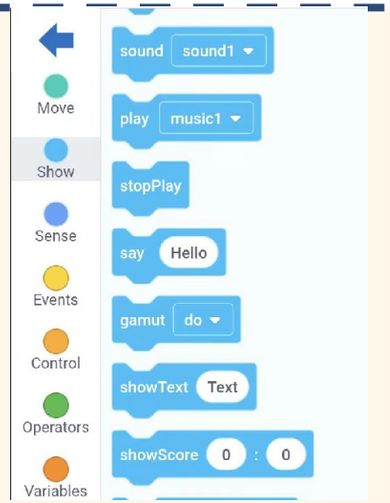
5.Let the car go back for 3 seconds and stop.

3

1.Show “321”

1.Understanding the showText Command.

Enter the desired text in the white box and the corresponding text will appear on the screen.



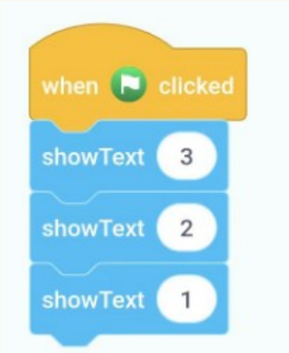
You can find it in the “sound” module.

2.Try inputting 1 and see what happens.

Look! The number 1 appears on the screen.

3.What should I do to display 3.2.1?

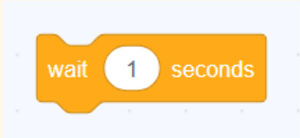
4.What happens if I click the start botton?

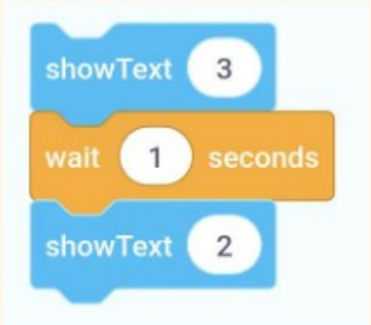


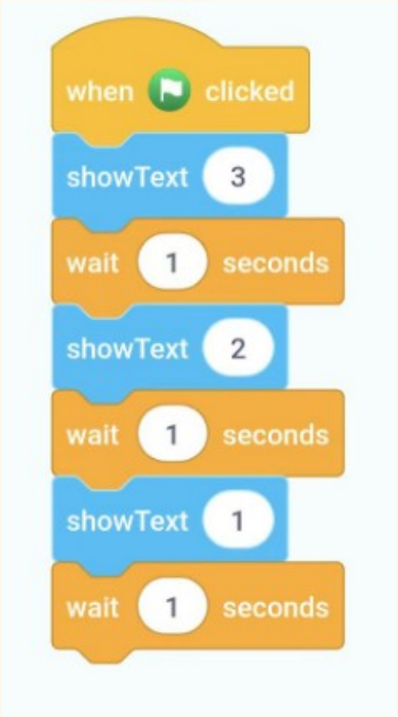
3

1.Show “321”

1.Use of wait for one second







The programs are executed sequentially, with a waiting time interval between two programs.

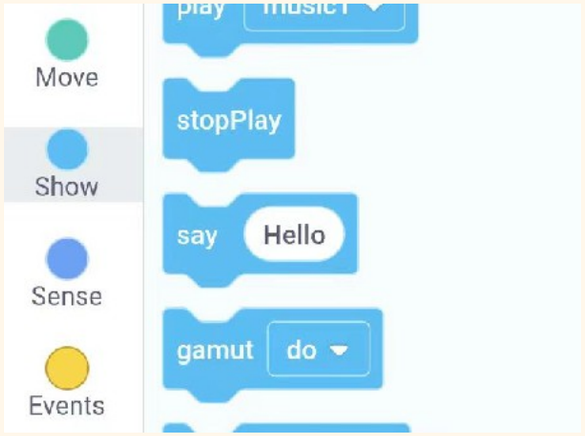
Try adding some time in between.

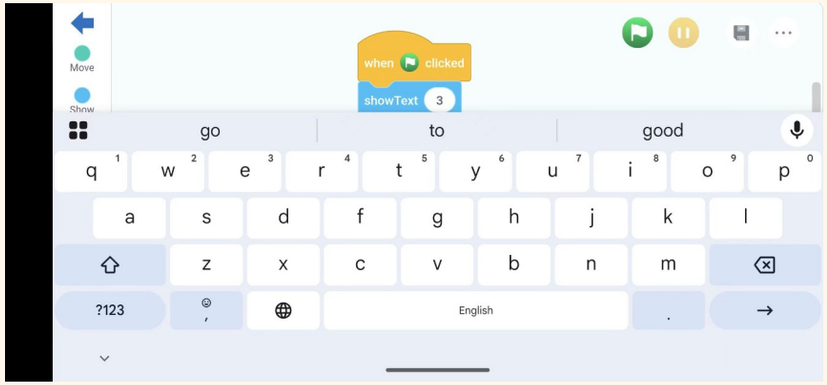
3

1.Say “go”

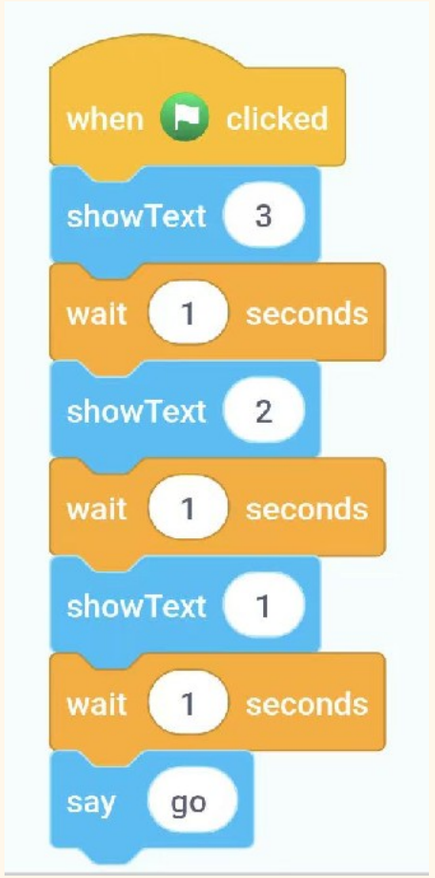
2.Use of say

Enter text in the white box and the phone will make a corresponding sound.





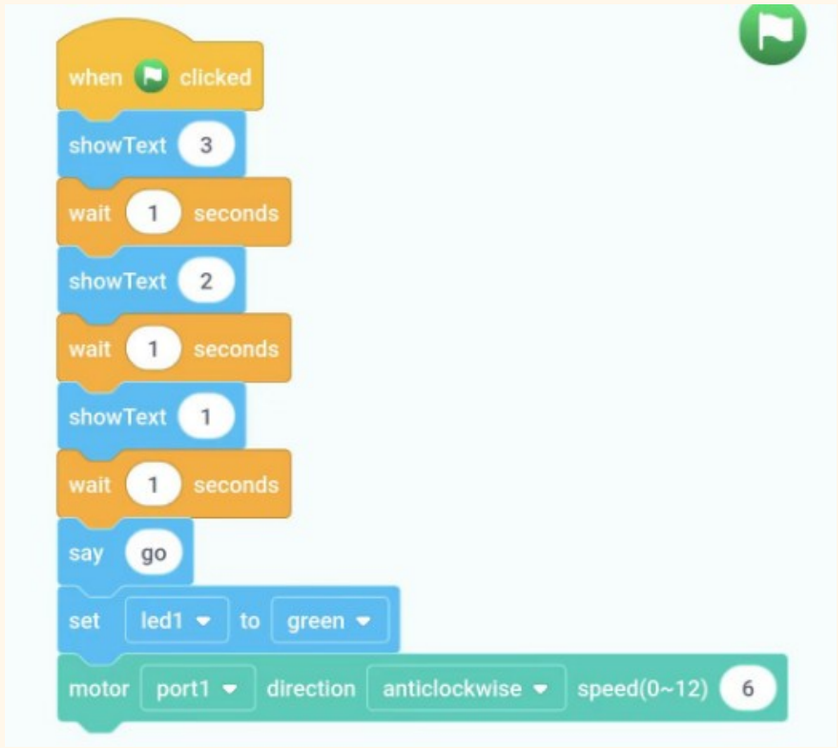
Enter “go”



3

1.Let the car turn on the green light and move forward for 3 seconds.

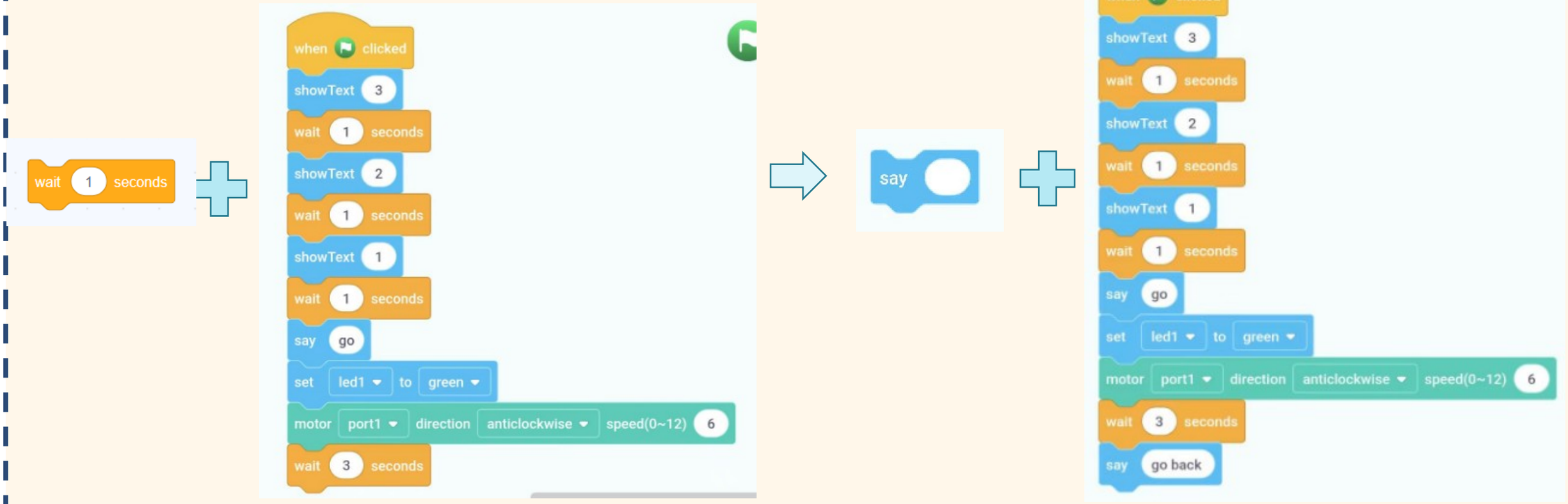
1.Do you remember how to go forward when the light turns green?



3

1.Let the car go forward for 3 seconds and say “go back”

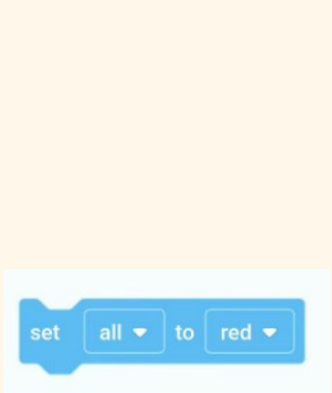
1.Use of wait for one second

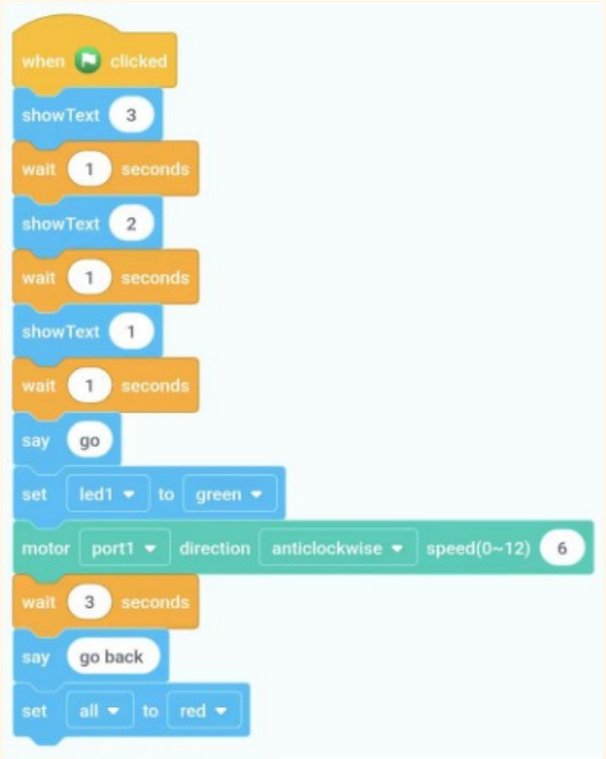


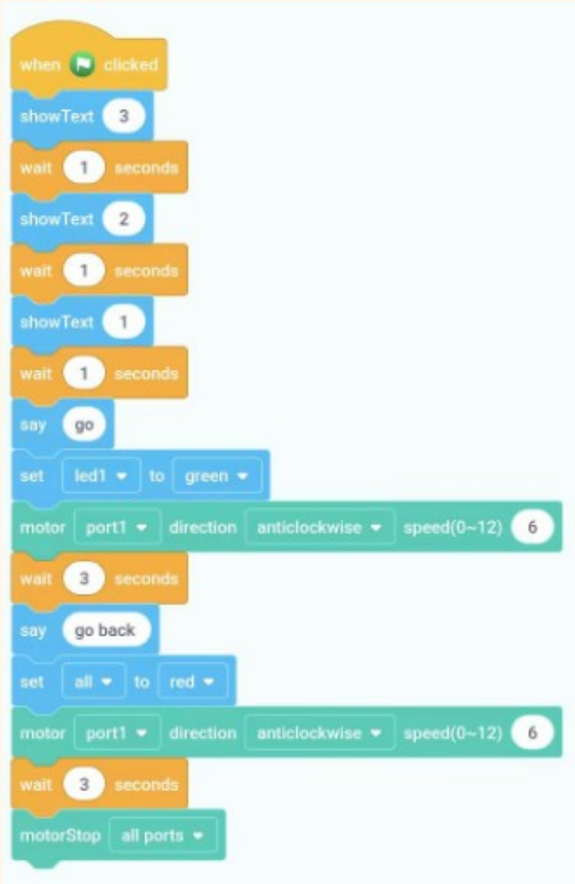
3

1.Let the car back up for 3 seconds after turn on the red light

1.Turn on the red light

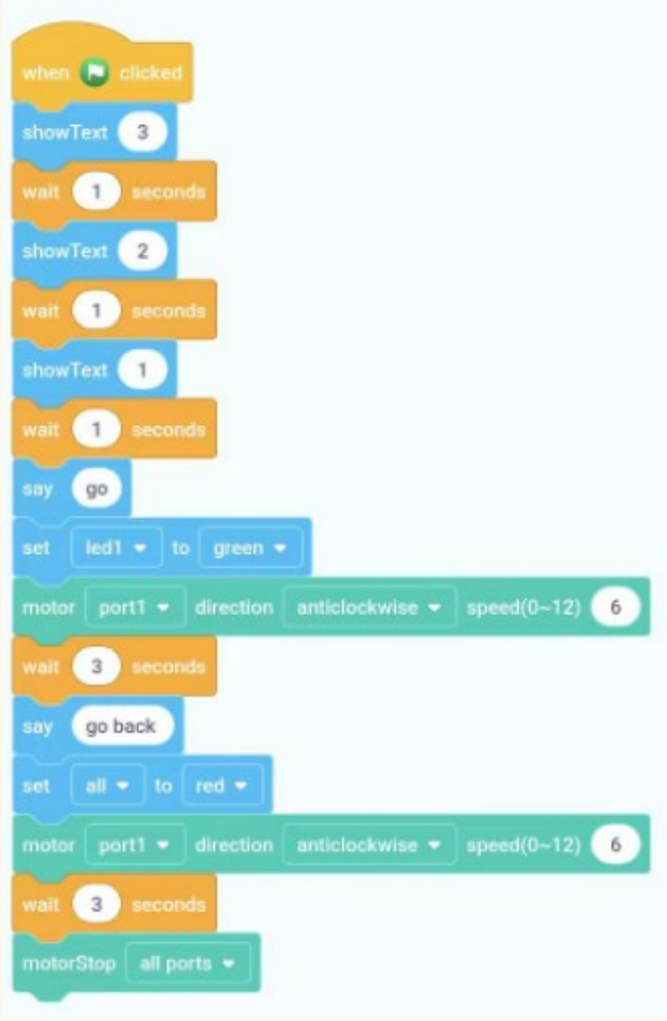






3

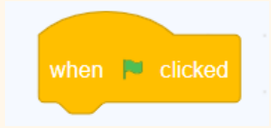
1.What should you do if you want the car to start moving after you say “go” or “go back”?



4

Have a try

1.Function: Click , let the car say “go” and then stop after 5 seconds.
Then it will say “go back” and start to go backward



1

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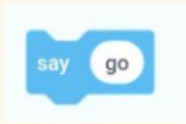
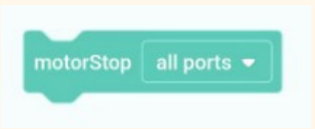
2 

1 

3 

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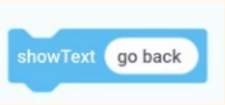
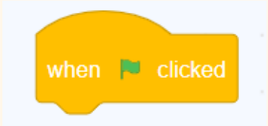
5 

6 

4

Have a try

1.Function: After clicking , let the car turn on the green light and move forward for 5 seconds, move back for 3 seconds and stop.



1

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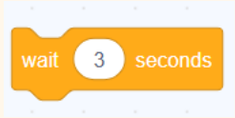
5 

4 

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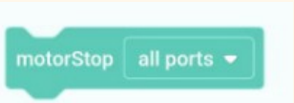
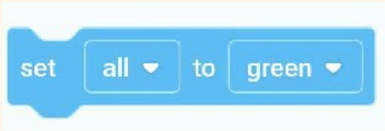
6 

1 

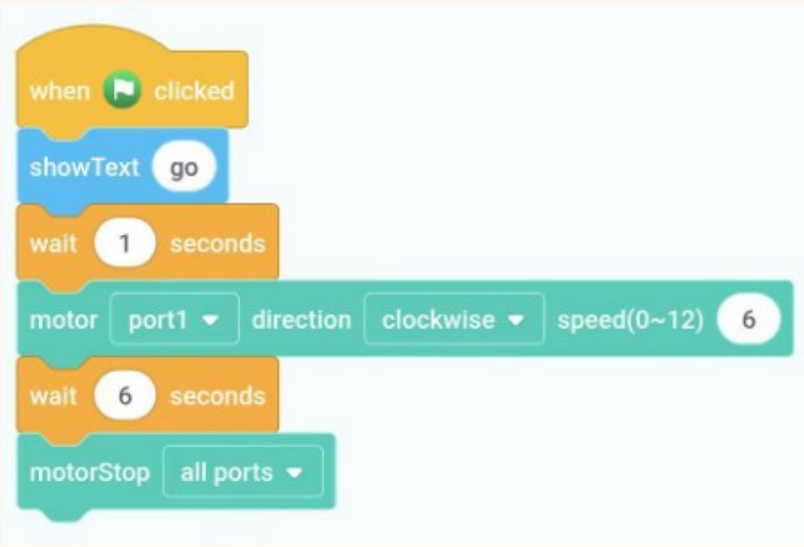
3 

5

Consolidate and extend

Q &
A

Q1 : Alex wrote a program for the car but it won’t say “go”. What’s going on?



A1 : Because he used the “showText” module

5

Knowledge Review

(1)

Say the contents of the text box

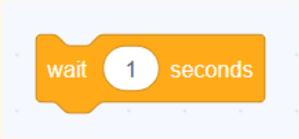
(2)

Control of the motor clockwise and counterclockwise

5

Knowledge Review

(3)



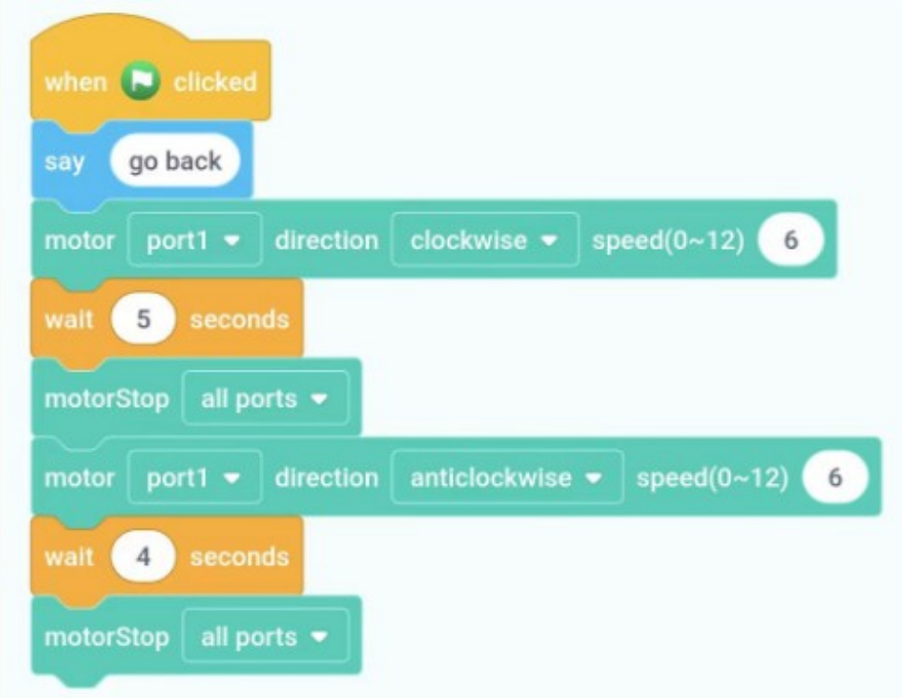
The programs are executed sequentially, with a waiting time interval between two programs.

(4)

Display the text box contents on the screen

5

Alex wrote such a program for the car, but the car did not say "go back" before moving. Why? ( )

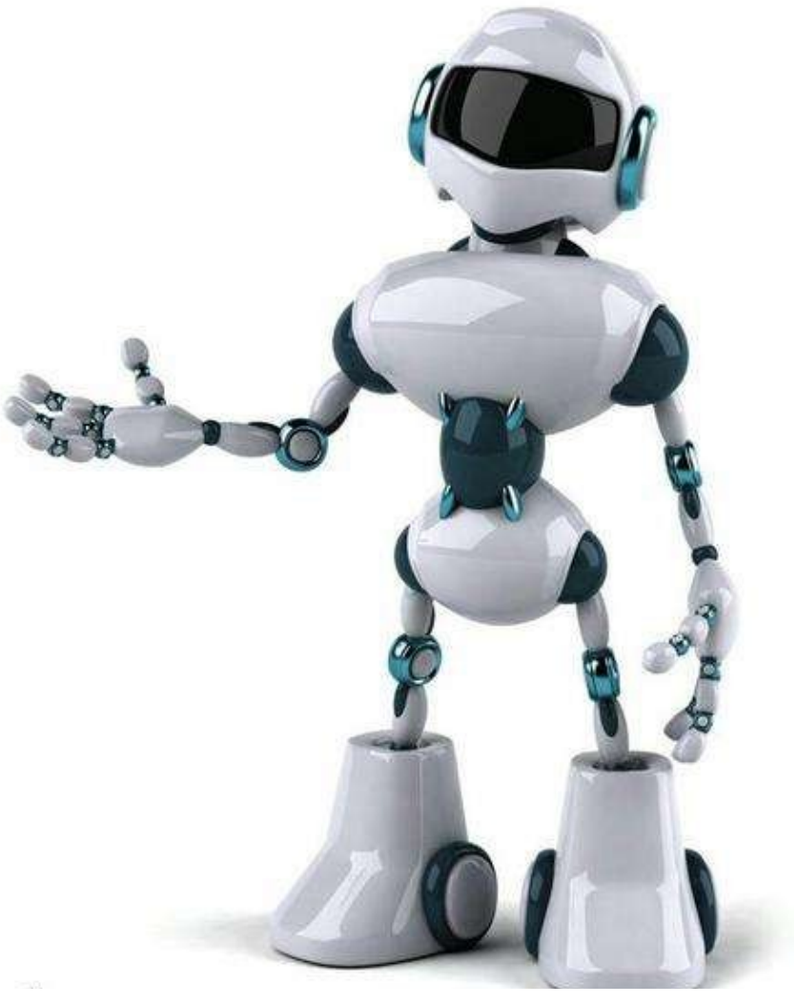


A He put the wrong module

B There is no time set for the car to say

C The car is lazy

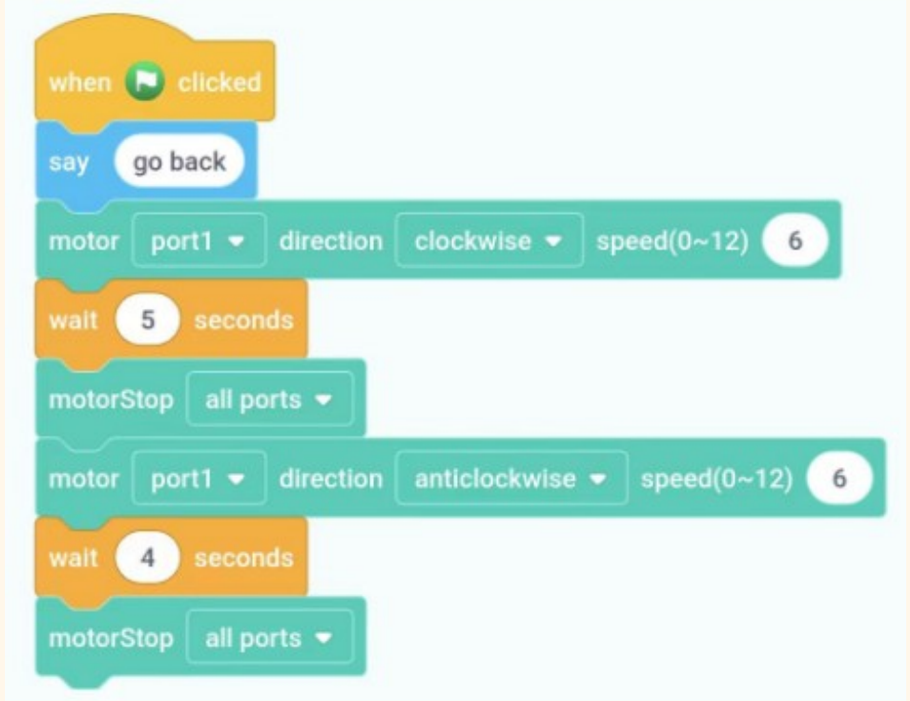
D The time position is wrong



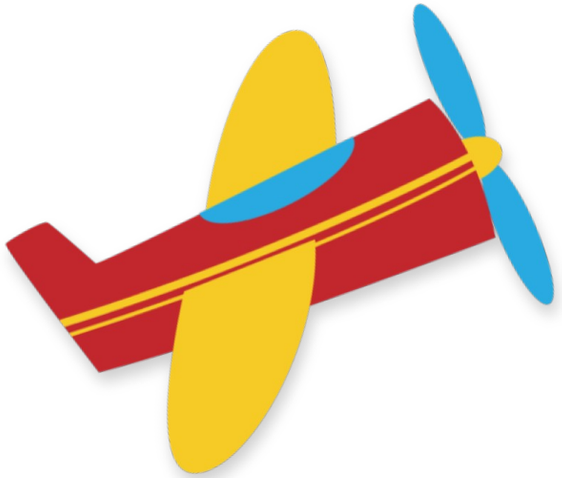
5

Answer : **B**

Analysis : **Because there is no time set for the "say" module, the car will talk while driving.**



Talk



THANKS