

## 2. Colorful LED

The summary program of this experiment is shown below:

Method 1:

```

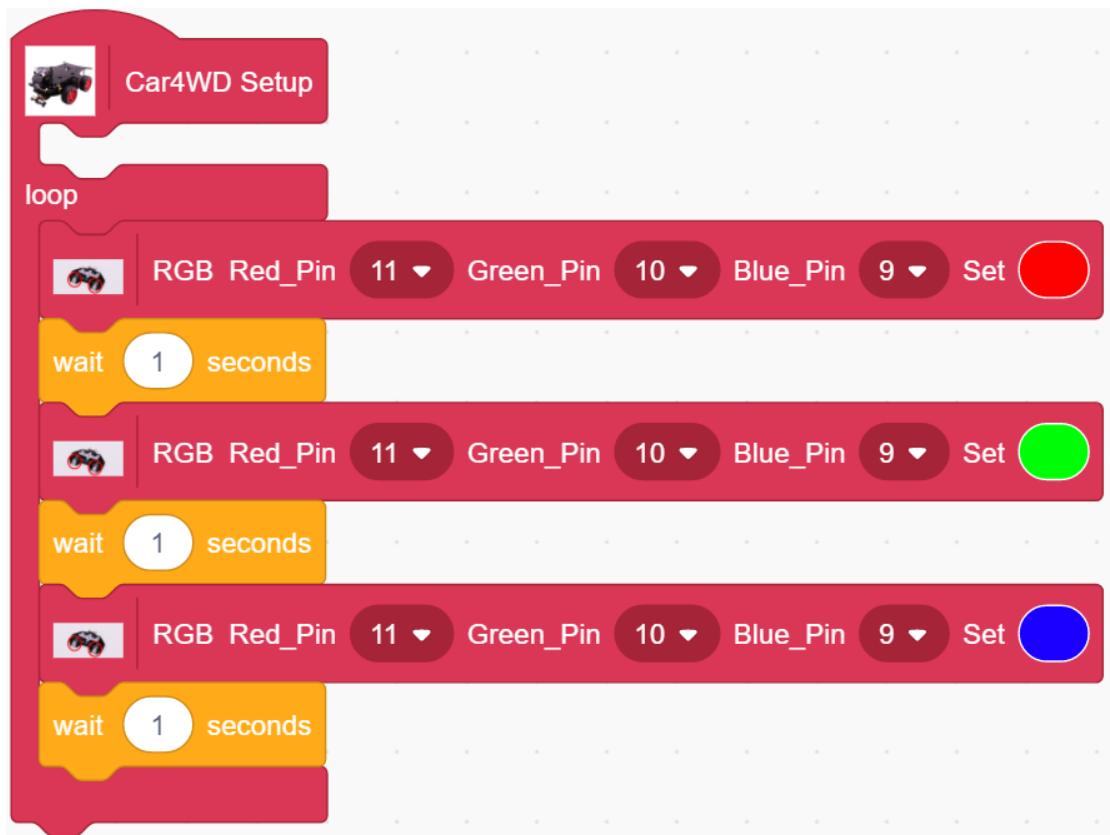
    Car4WD Setup
    loop
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 Set red
        wait 1 seconds
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 Set green
        wait 1 seconds
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 Set blue
        wait 1 seconds
    end
  
```

Method 2:

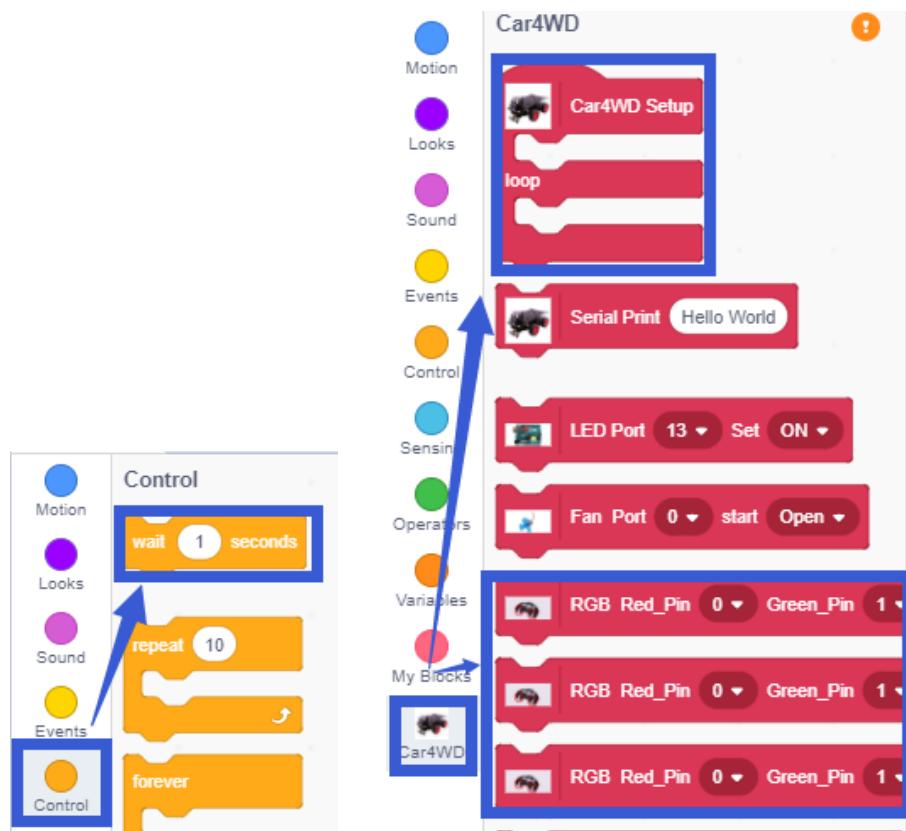
```

    Car4WD Setup
    loop
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 R value 255 G value 0 B value 0
        wait 1 seconds
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 R value 0 G value 255 B value 0
        wait 1 seconds
        RGB Red_Pin 11 Green_Pin 10 Blue_Pin 9 R value 0 G value 0 B value 255
        wait 1 seconds
    end
  
```

Method 3:

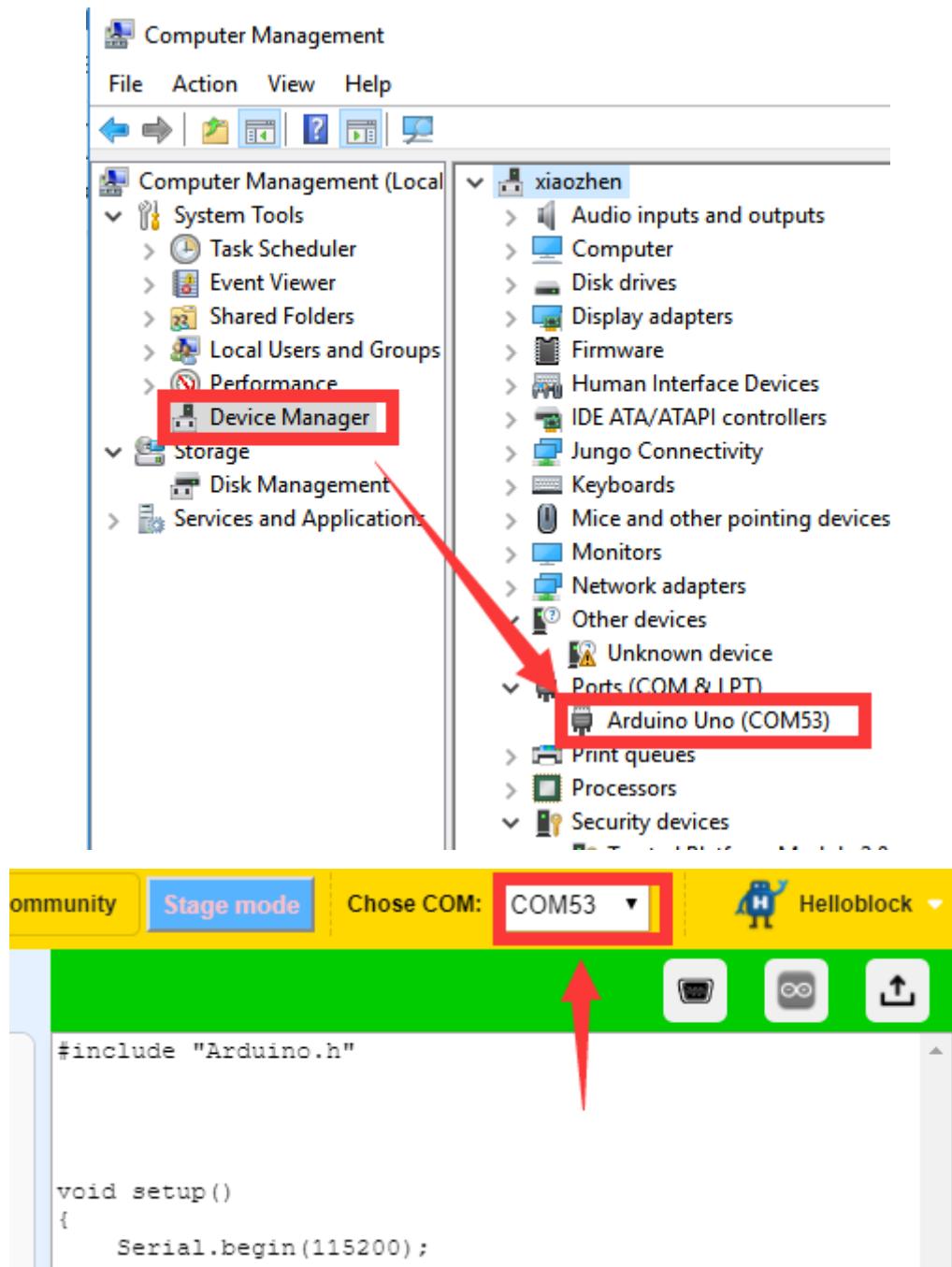


## 1. Search for blocks

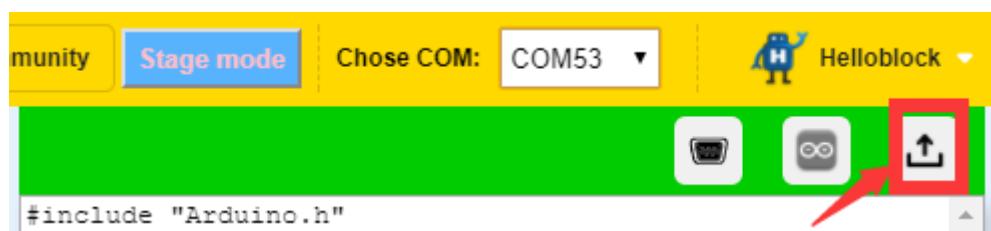


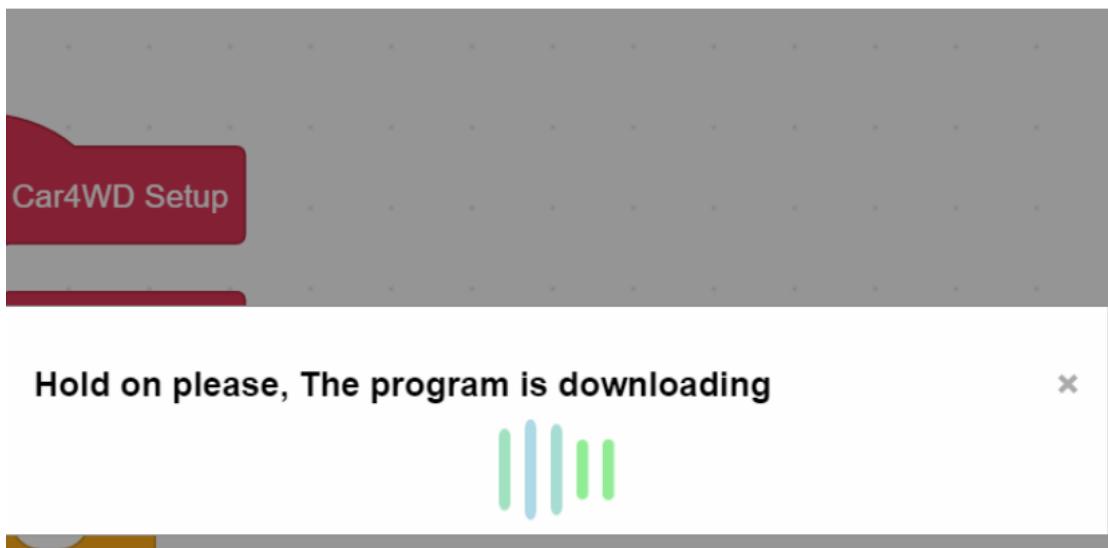
## 2. Download program

2.1 In the upper right corner of Helloblock, we need to select the port that the serial number displayed by the device manager (for example:COM54) As shown in the figure below.



2.2 Click the up arrow to start compiling and uploading the program. It will take a certain amount of time, we need to wait patiently.





It takes a certain amount of time to compile the program, and everyone needs to wait patiently.

2.3 When the words "Done compiling" "Done uploading" appear in the lower right corner of the programming interface, as shown in the following figure, the program has been uploaded.

```
>C:\Program Files
(x86)\Helloblock\resources\Arduino\libraries\YahBoo
m\YahBoom_OMIBOX.cpp:381:6: note: initializing
argument 1 of 'void
YahBoom_OMIBOX_Matrix::YahBoom_OMIBOX_Matrix_ShowIc
on(byte*)'

    void
YahBoom_OMIBOX_Matrix::YahBoom_OMIBOX_Matrix_ShowIc
on(byte *character)

>Sketch uses 3292 bytes (10%) of program storage
space. Maximum is 32256 bytes.
>Global variables use 842 bytes (41%) of dynamic
memory, leaving 1206 bytes for local variables.
Maximum is 2048 bytes
Done compiling. Done uploading!
```

### 3.Experimental phenomena

After the program is downloaded, we can see that the colorful LED on the Arduino 4WD car will become red, green and blue, with a time interval of 1 second.