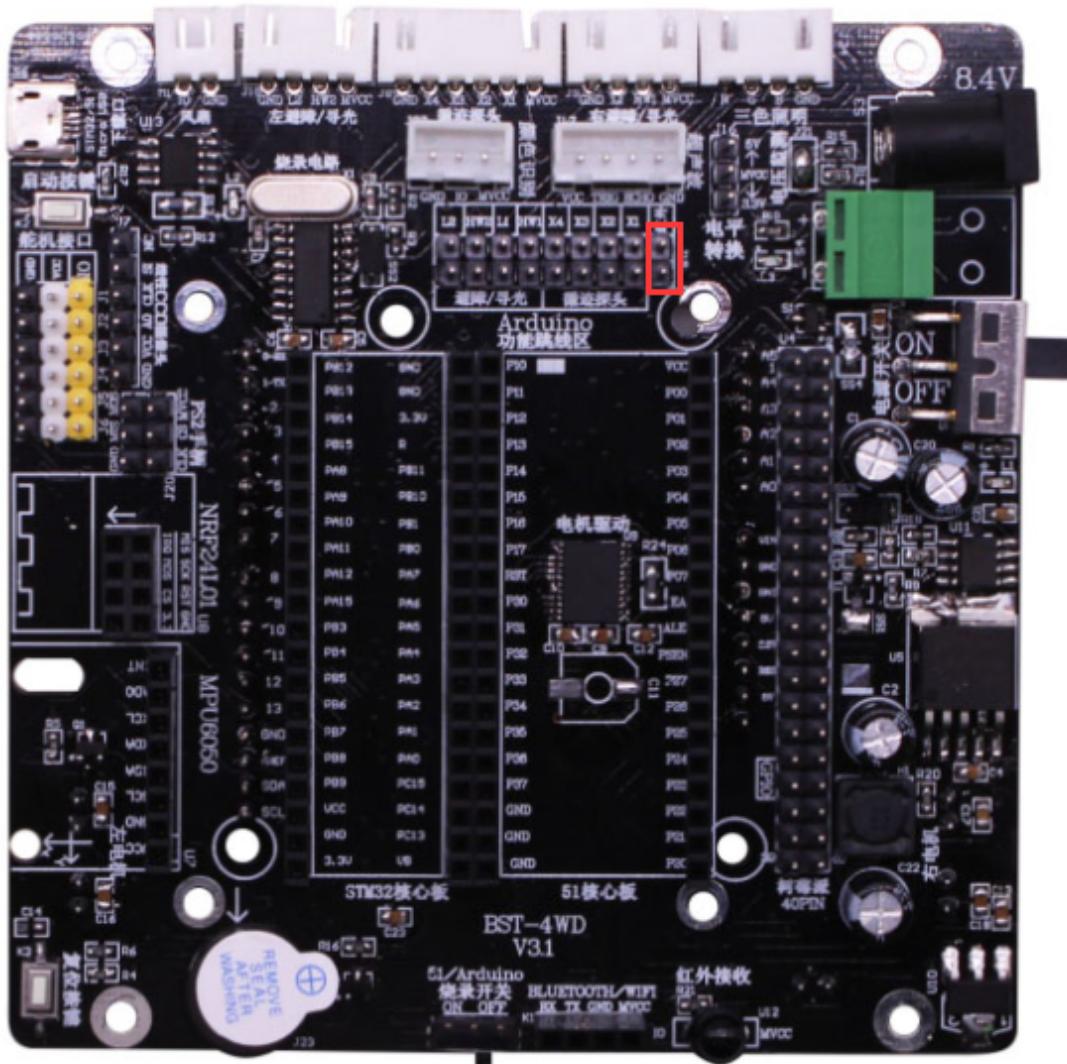


16.IR control

!! Note:

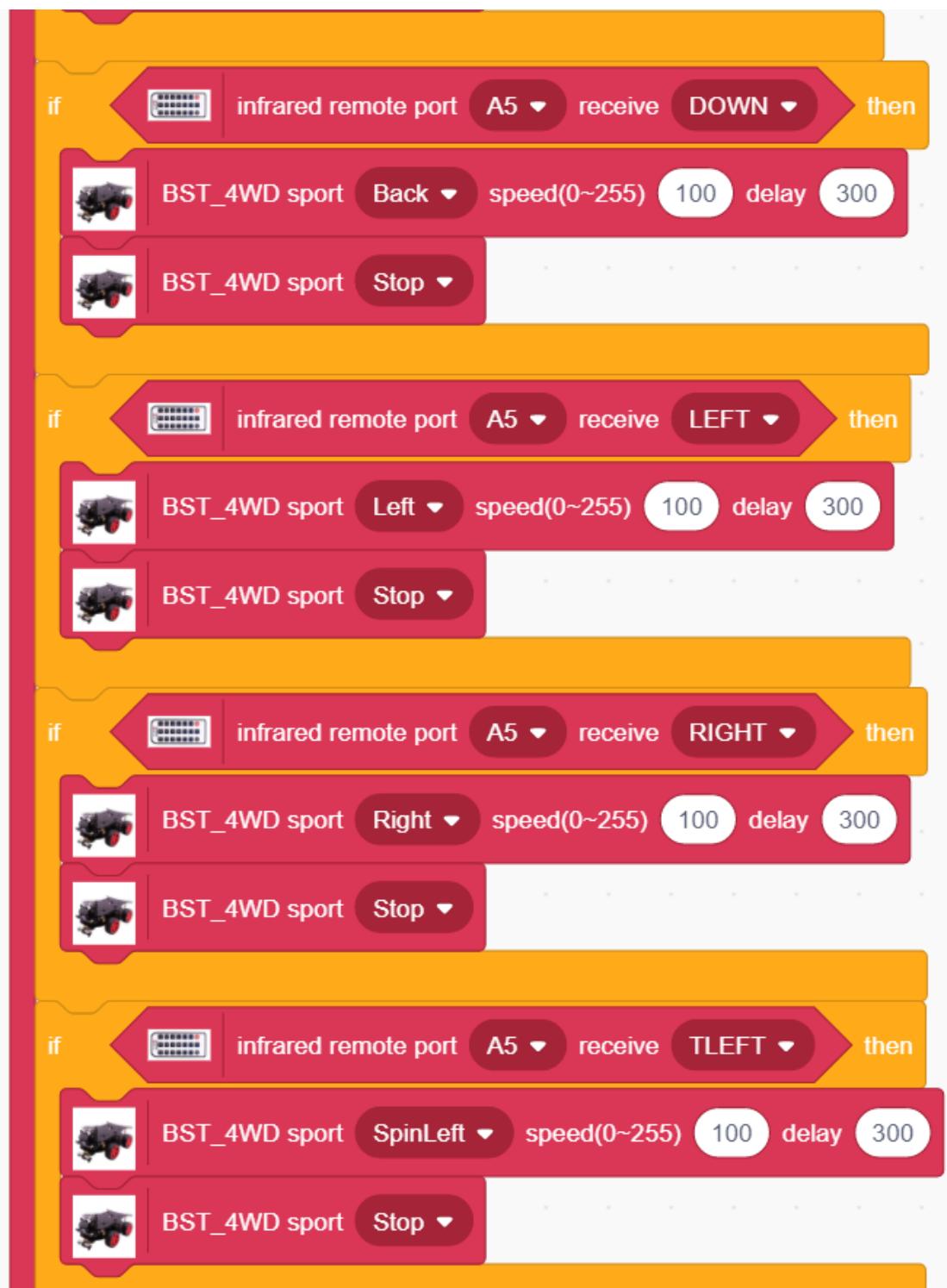
1. In order to avoid the interference of sunlight on the infrared sensor, this experiment needs to be carried out indoors.
2. In the infrared remote control experiment, there is a row of pins above the 51 core board on the expansion board, and the right two pin headers should be equipped with a jumper cap, as shown in the figure below.

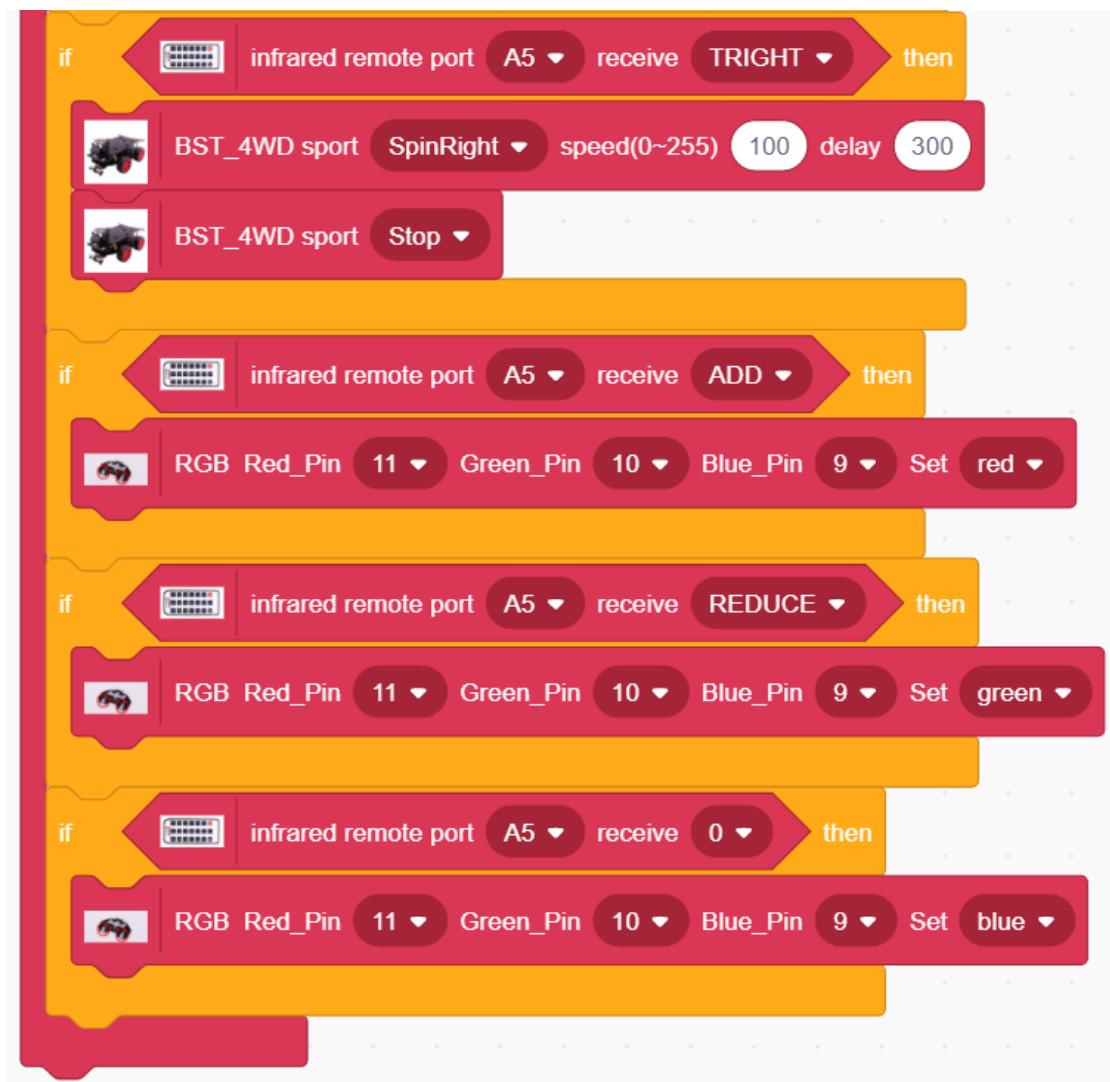


3.We need to unplug the small fan and grayscale modules.

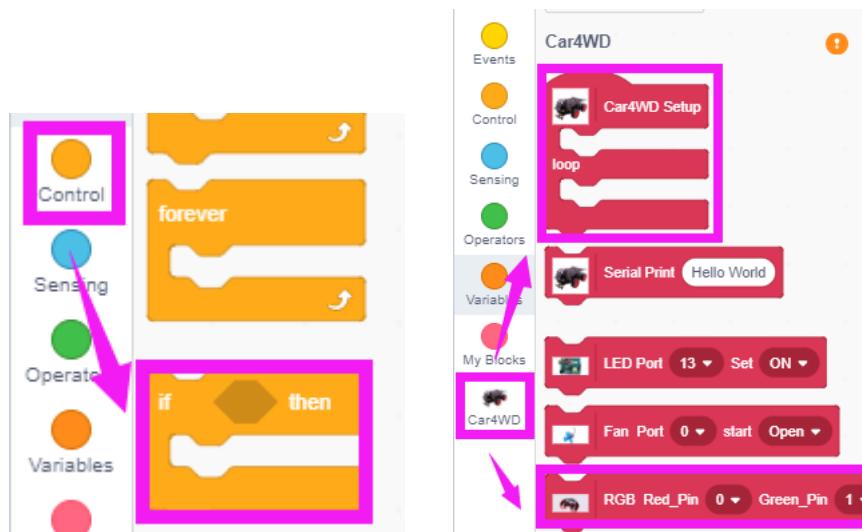
The summary program of this experiment is shown below:

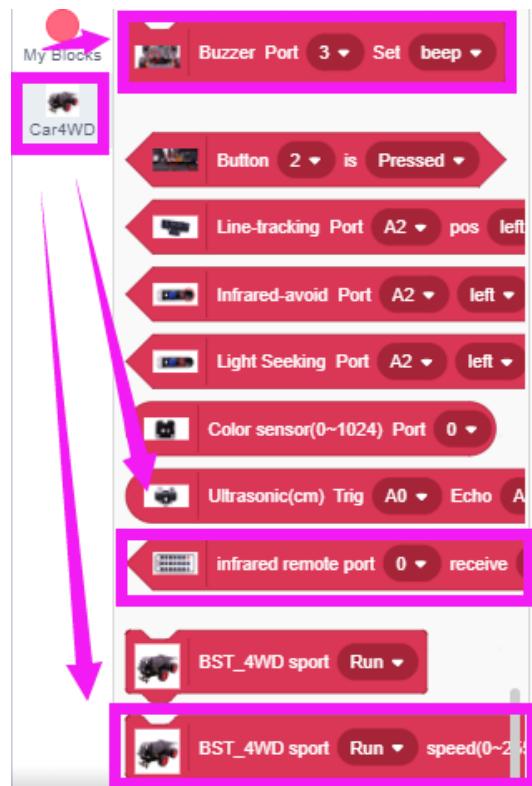






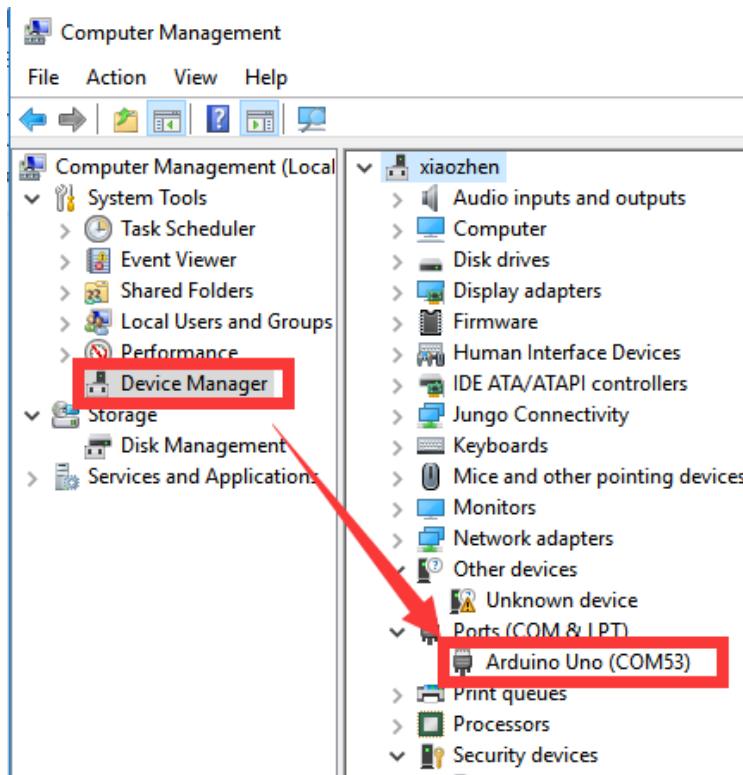
1. Search for blocks

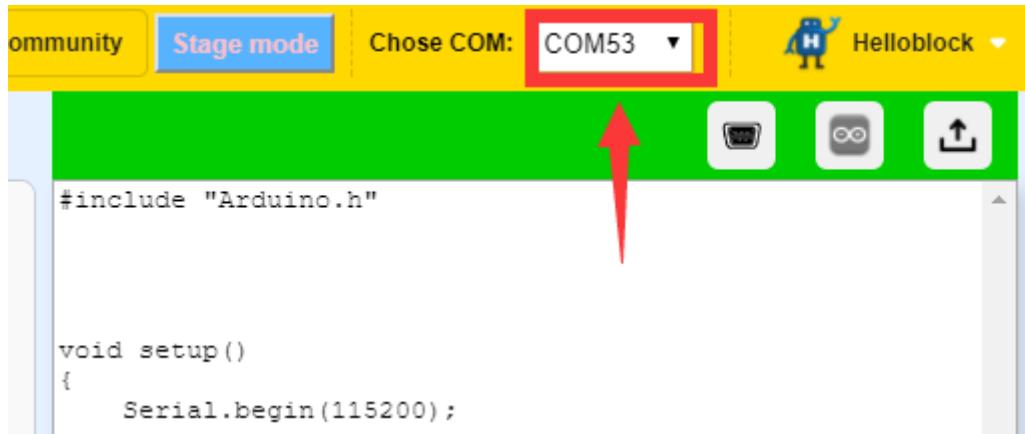




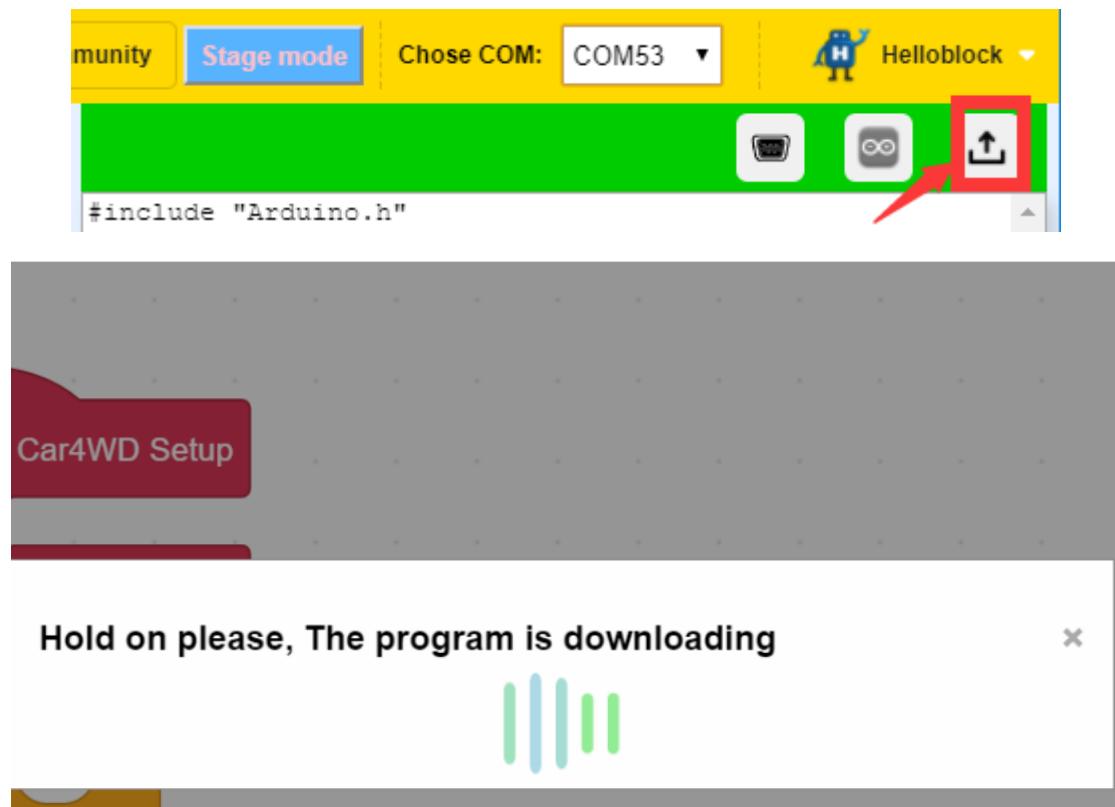
2. Download program

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!
Status for device: done.
-----
Baud:          115200
Parity:        None

```

3.Experimental phenomena

After the program is downloaded, we need to turn on the power, take out the infrared remote controller point to the infrared receiver at the rear of the car. We can control the car to complete the functions shown below.

