**Drift movement**

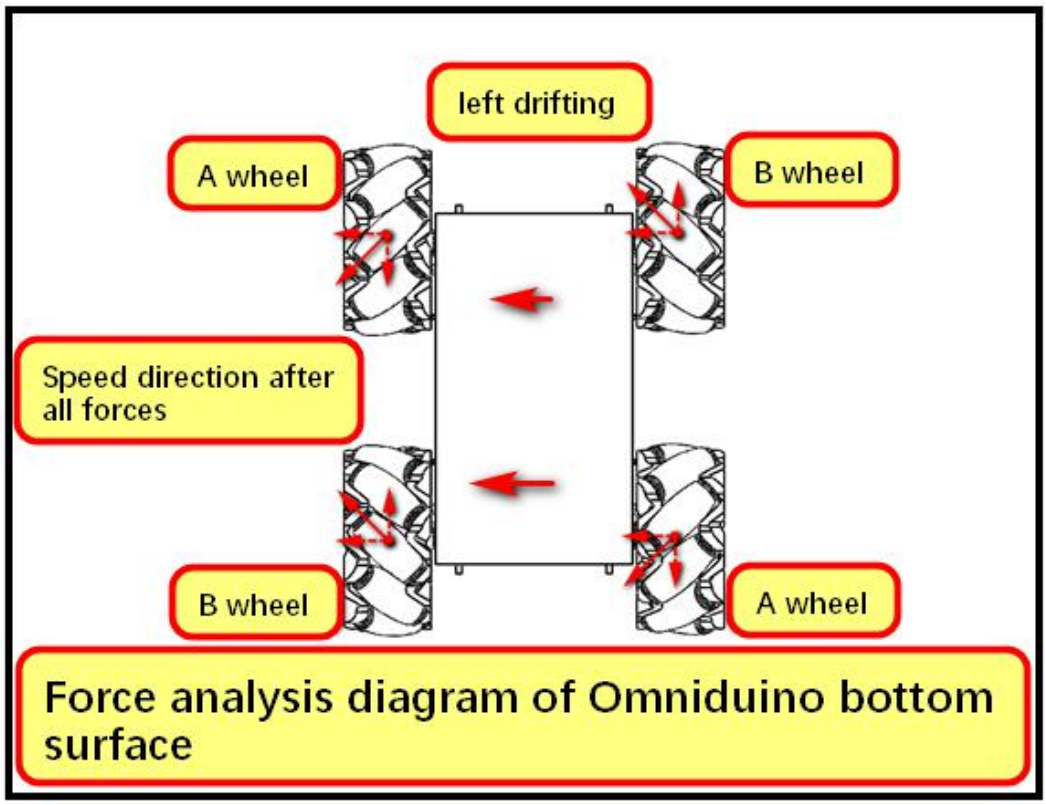
**1. Learning goal**

In this lesson, we will increase the function of the car drift movement.

**2. Force Analysis**

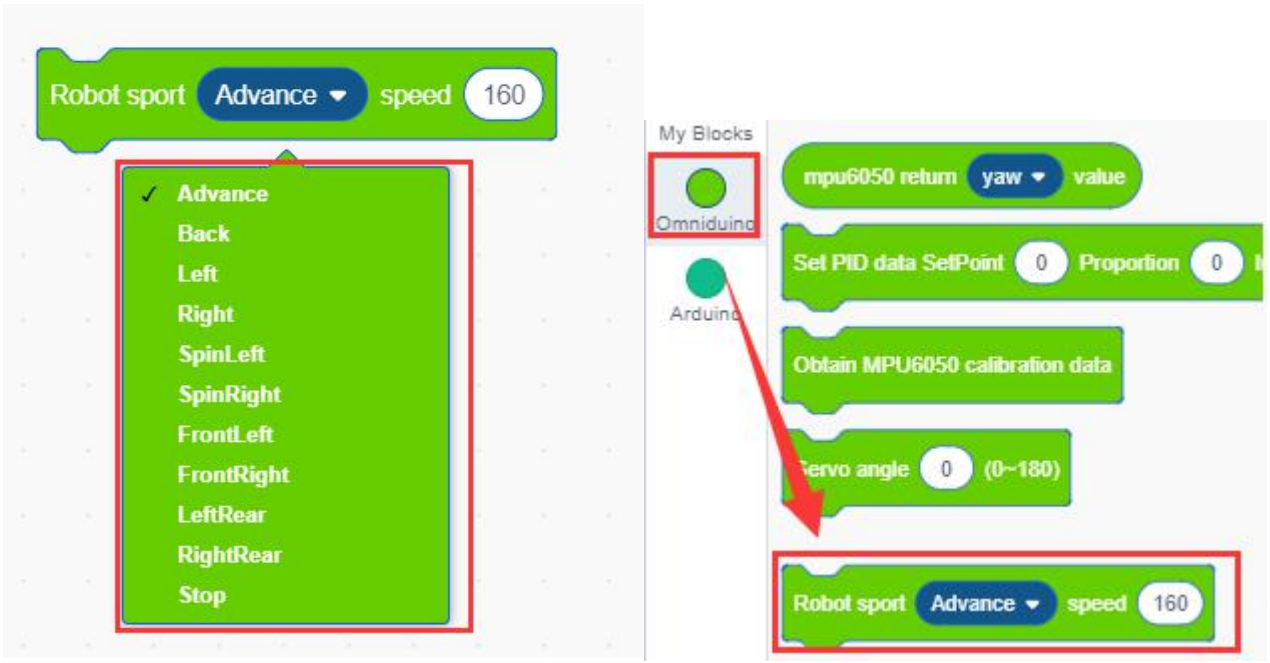
Analysis of the force of the car left drifting.

Drift to the left: When the A wheel reverse and the B wheel forward, the car will left drifting. If the speed of the front two wheels is less than the speed of the rear two wheels, car will move to the left and will also produce a centripetal force that points to the front of the car. Therefore, the car will have a drift-like motion.

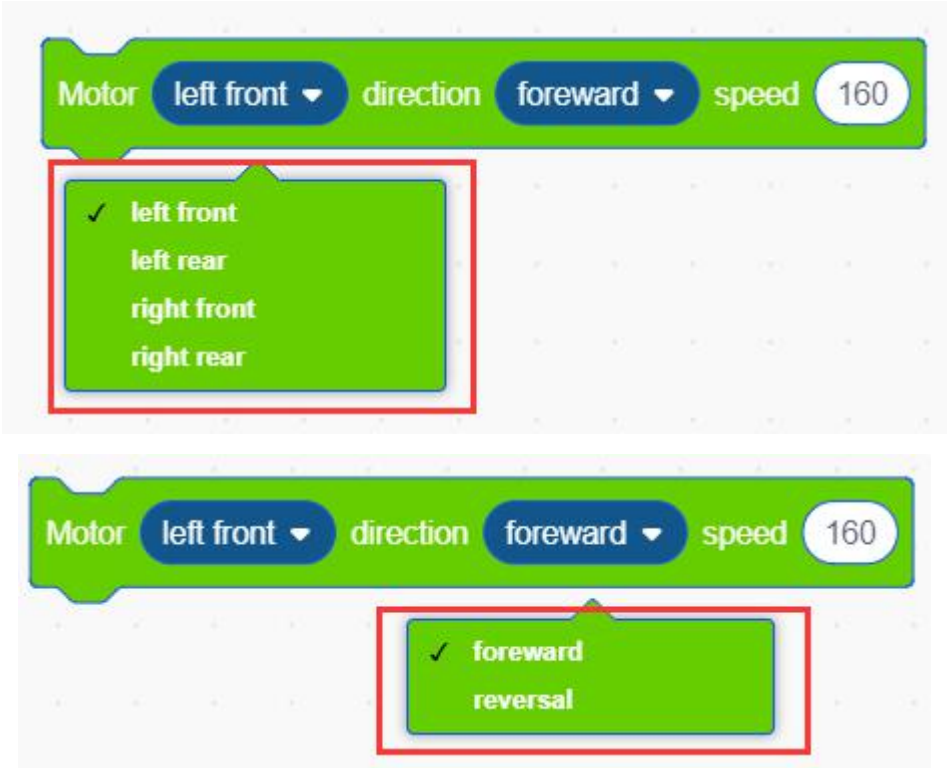



**3.Looking for building blocks**

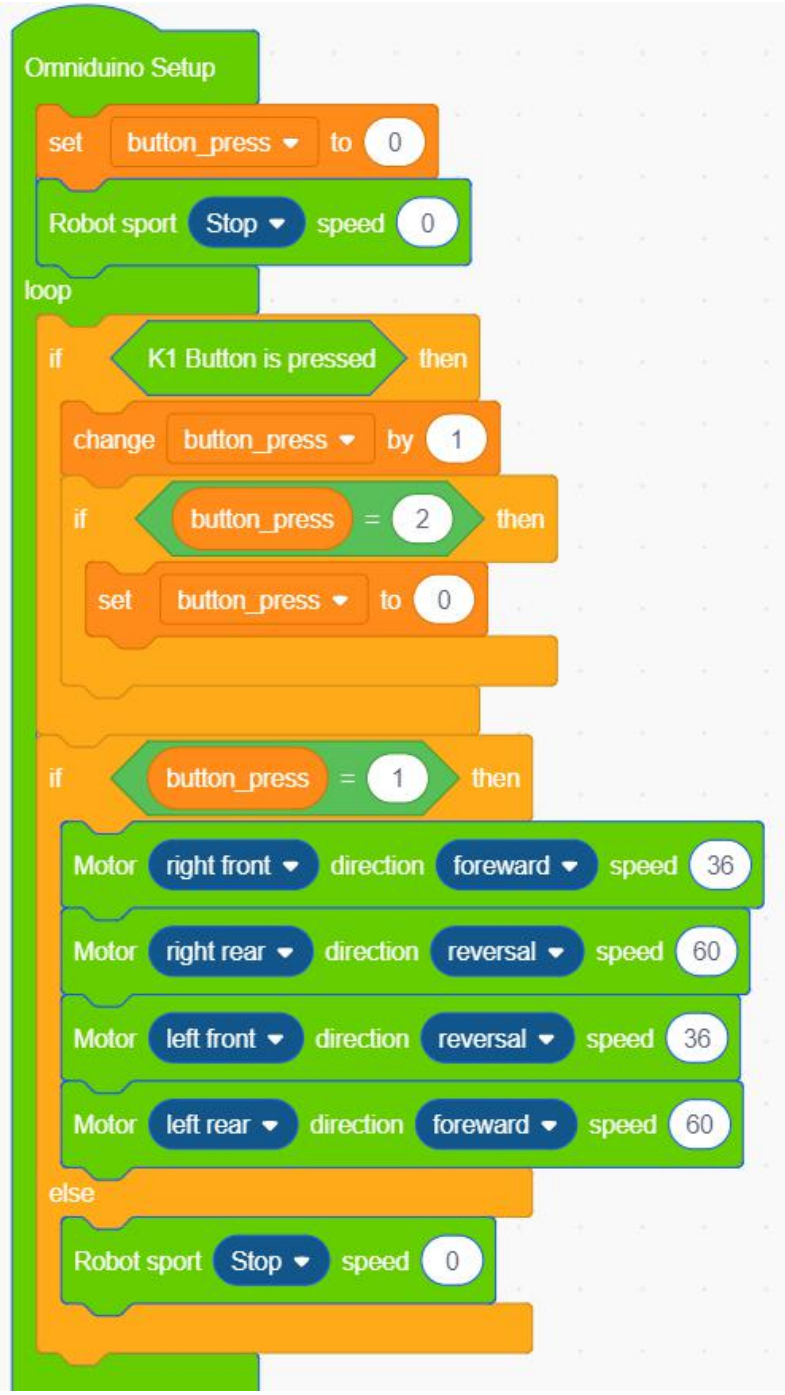
1) Robot sport building block, we can choose movement status, the speed is adjustable between 0-160.




2) We can choose the movement mode of the different motors of the car, forward or reverse, the speed is adjustable between 0-160.



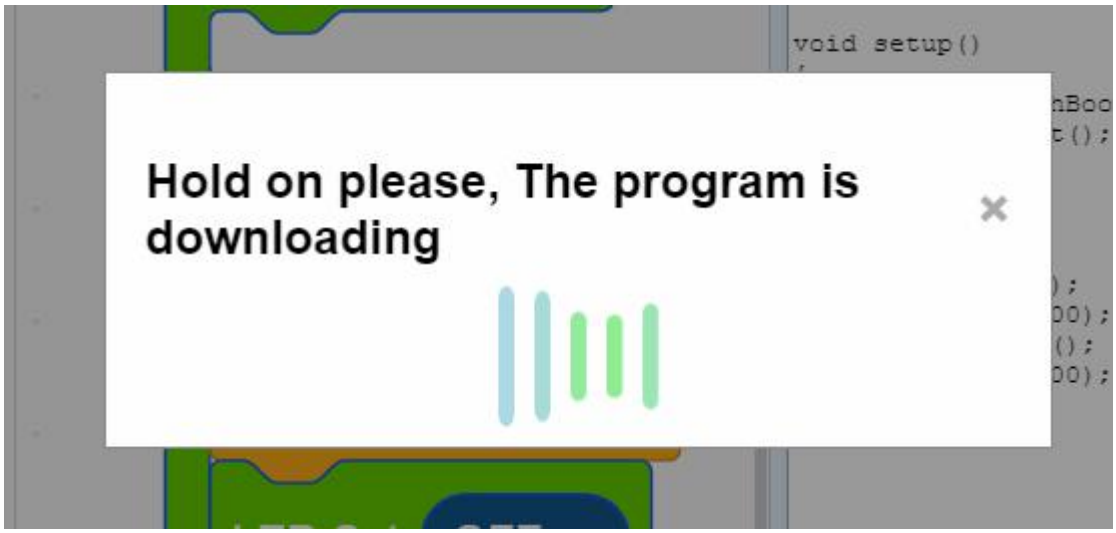

**Combine blocks**



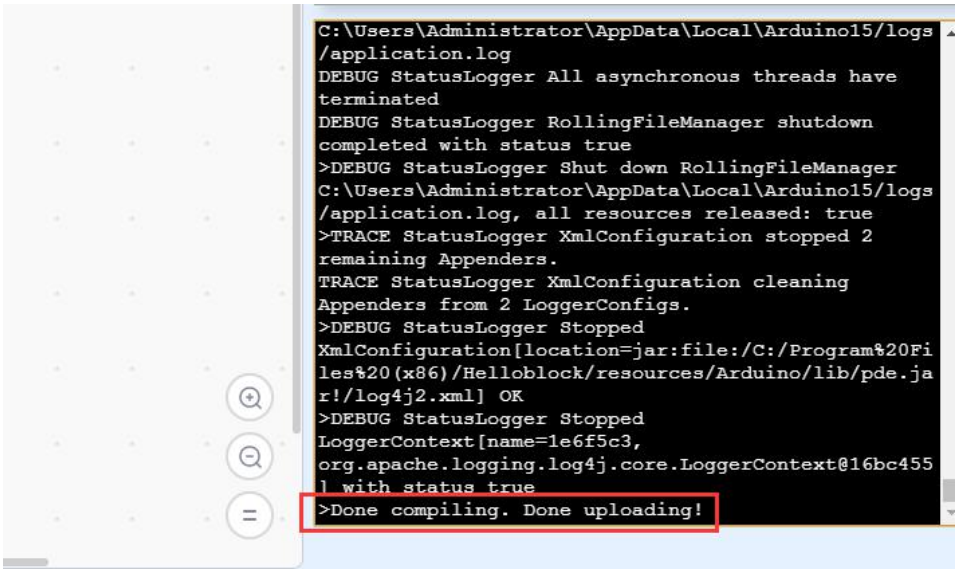

**4. Compiling and uploading the program**

4.1 After building the blocks, click the **[code mode]** in the upper right corner of the Helloblock programming interface. We can see the corresponding Arduino code.


4.2 Then, you need to connect Omniduino car to your computer. Select the CH340 port number identified in the previous step in the upper right corner. Then, click the up arrow to start compiling and uploading the program.




4.3 When the words **"Done compiling  Done uploading"** appear in the lower right corner of the programming interface, which means the program has been uploaded.




**5. Experimental phenomenon**

After the program is downloaded. After we press the K1 button, omniduino car will drift left.