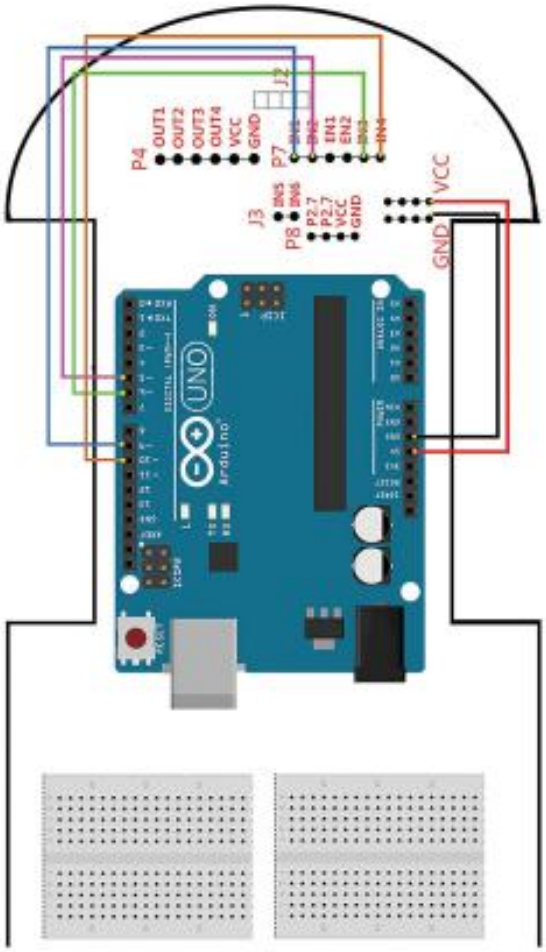
2、 car run

You need to follow the steps below to build blocks.

Material object wiring diagram:

IV. Wiring Instructions

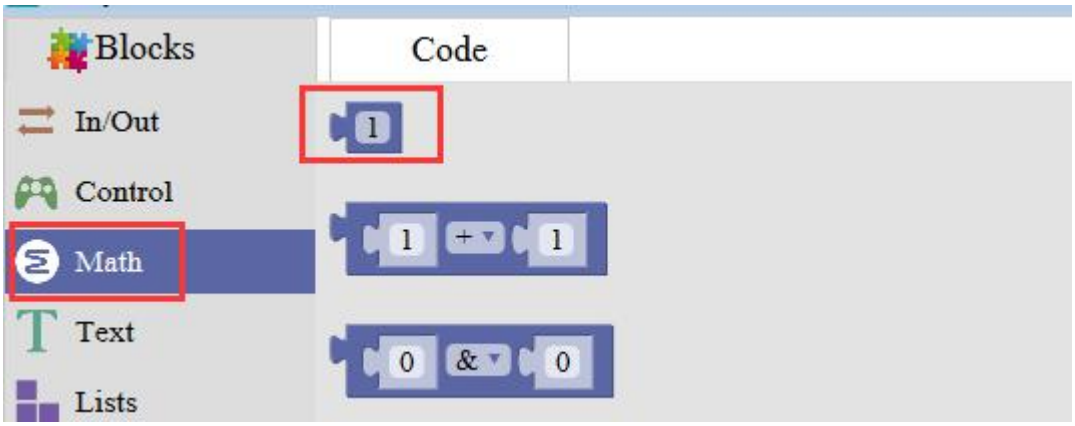
4.1 Motor drive wiring diagram

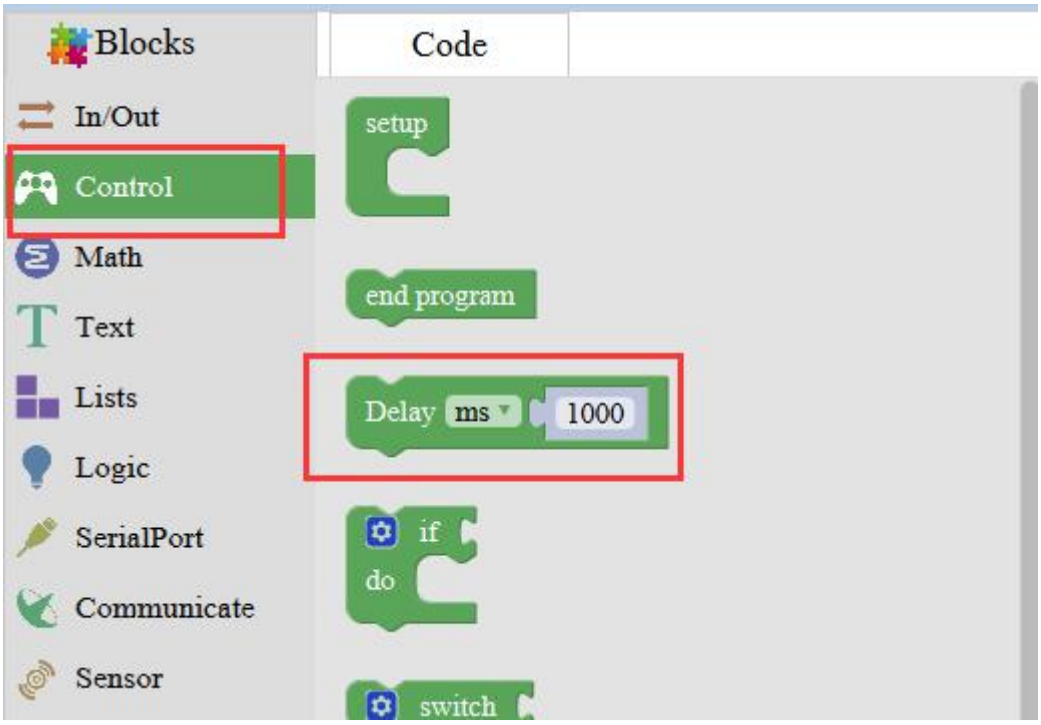


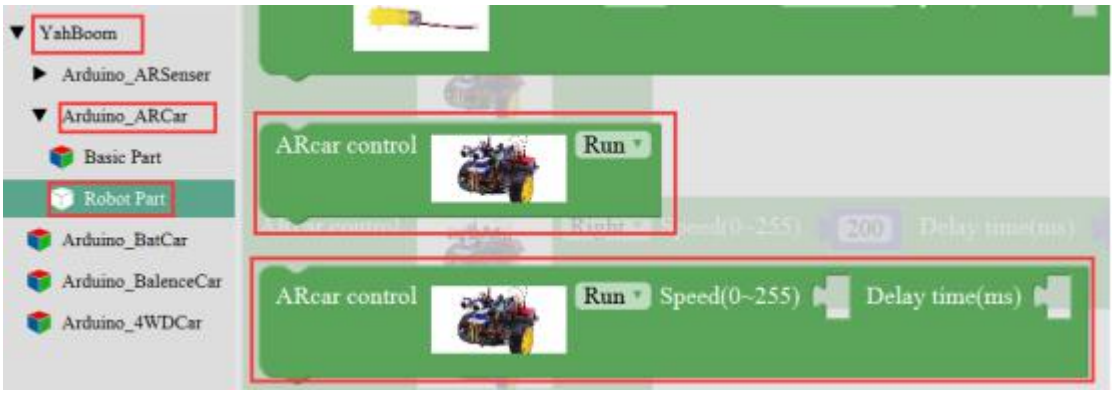
According to this wiring diagram, the smart car can realize forward, backward, left, right, and specified fancy movements after uploading the corresponding program.

Steps of experiment:

1.You need to choose the building blocks which you need for this experiment, as shown in the figure below.



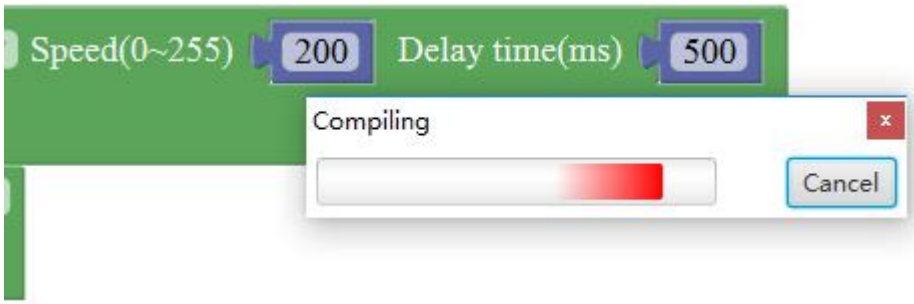




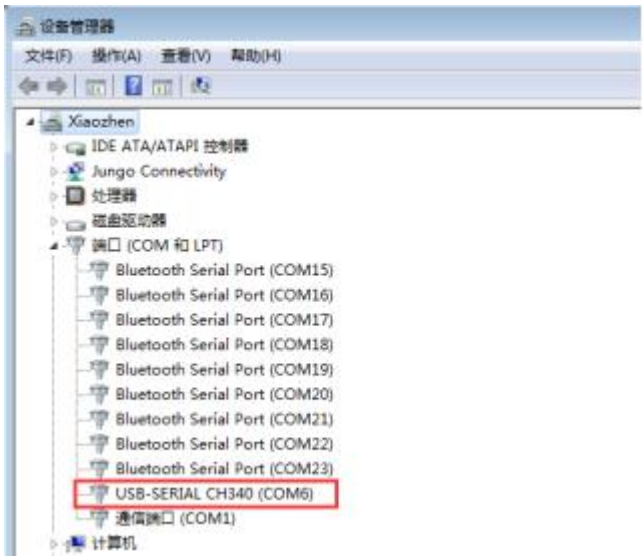
2.You need to combine the selected blocks, as shown in the figure below.

3.You need to you need to click “**Compile**”. and wait for the completion of the compiler, the following box will prompt the compiler successfully, if prompt the compile failure is the problem of building block splicing.

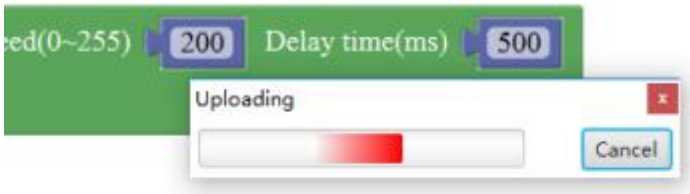
4. After the compilation is completed, the word "**Compile success!**" will appear in the lower left corner, indicating that you have successfully compiled the program.



5. In the menu bar of Mixly, we need to select the port that the serial number displayed by the device manager (for exmaple:COM6) and **Arduino/Genuino Uno.** As shown in the figure below.



6. After the selection is completed, you need to click “**Upload**” to upload the code to the Arduino UNO board. When the word “**Upload success**” appears in the lower left corner, the code has been successfully uploaded to the Arduino UNO board, as shown in the figure below.



7.After the code is uploaded, we can see that the car advance 0.5s, stop 1s,back 0.5s, stop 1s,turn left 0.5s, stop 1s,turn right 0.5s,stop 1s.


```
avrdude: reading input file "D:\YahBoom\mixlyBuild/testArduino.ino.hex"
avrdude: writing flash (1838 bytes):

Writing | ################################################## | 100% 0.30s

avrdude: 1838 bytes of flash written
avrdude: verifying flash memory against D:\YahBoom\mixlyBuild/testArduino.ino.hex:
avrdude: load data flash data from input file D:\YahBoom\mixlyBuild/testArduino.ino.hex:
avrdude: input file D:\YahBoom\mixlyBuild/testArduino.ino.hex contains 1838 bytes
avrdude: reading on-chip flash data:

Reading | ################################################## | 100% 0.23s

avrdude: verifying ...
avrdude: 1838 bytes of flash verified

avrdude done.  Thank you.

Upload success!
```