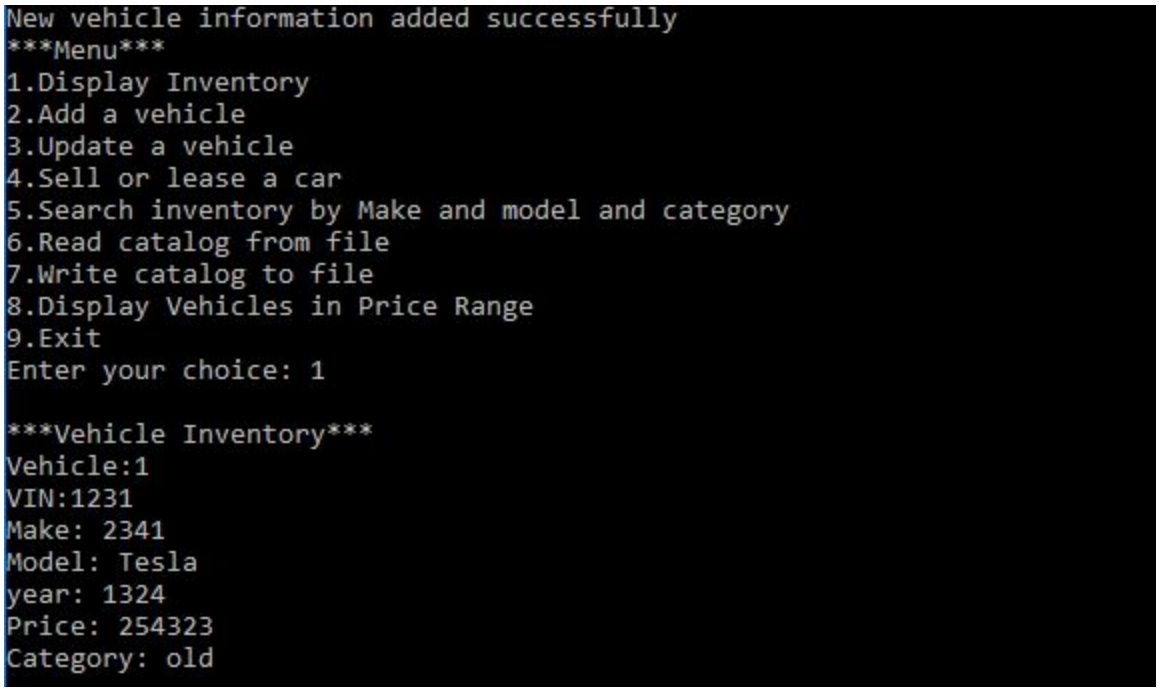
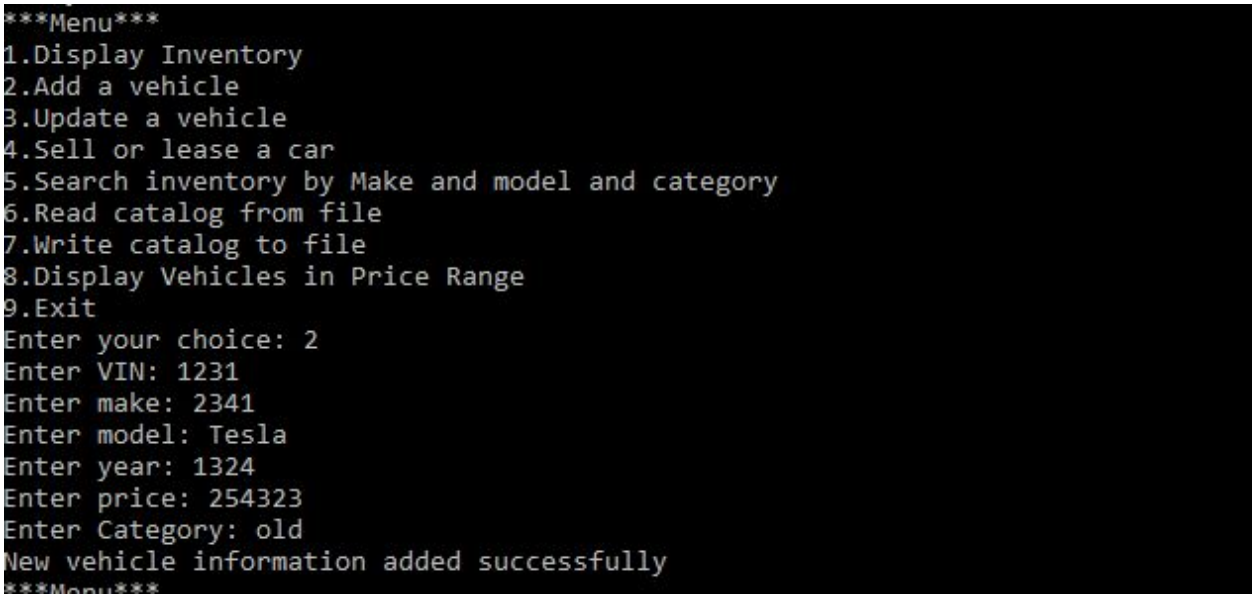
Final Project

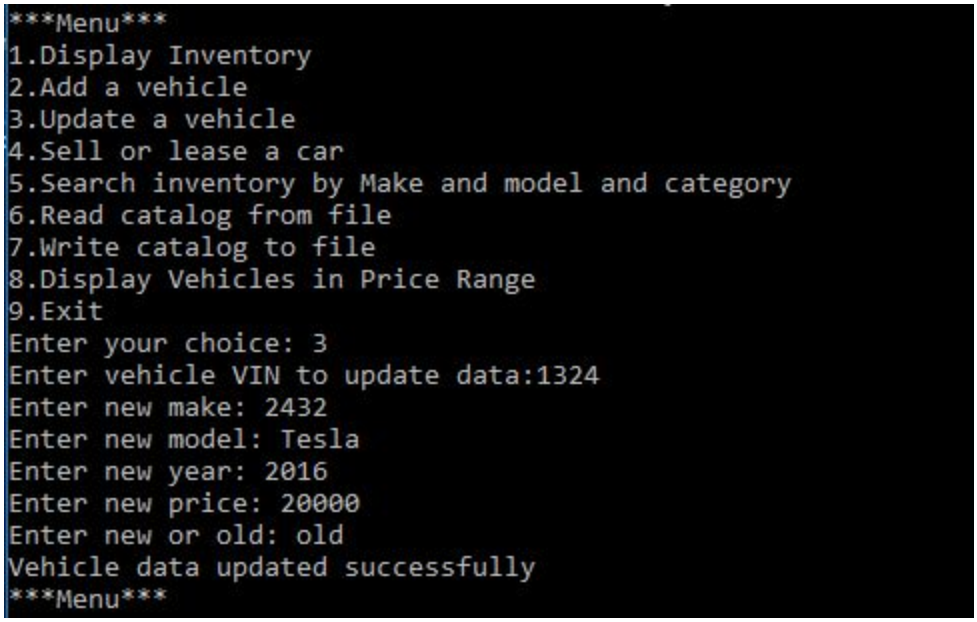
1) I tested to see if I could display my inventory.



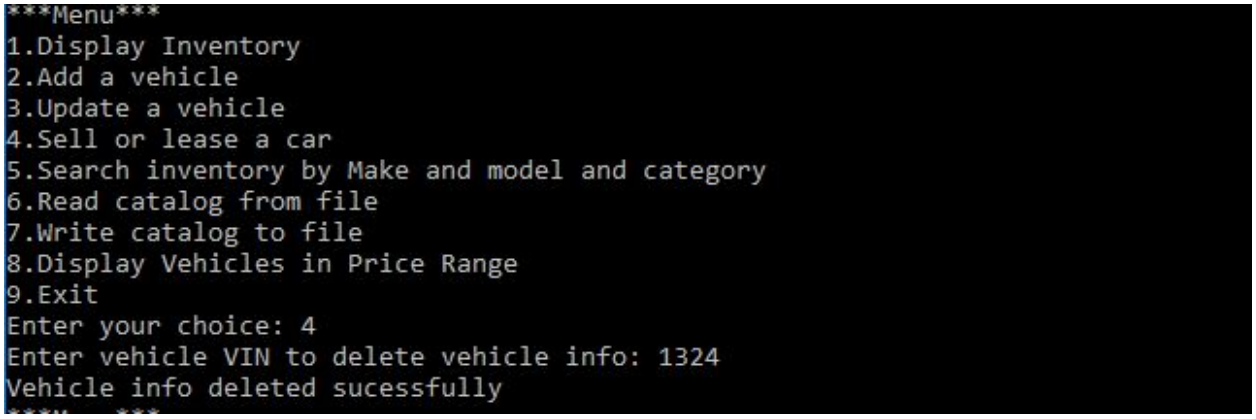
2) Then I tested to make sure I could add a vehicle.



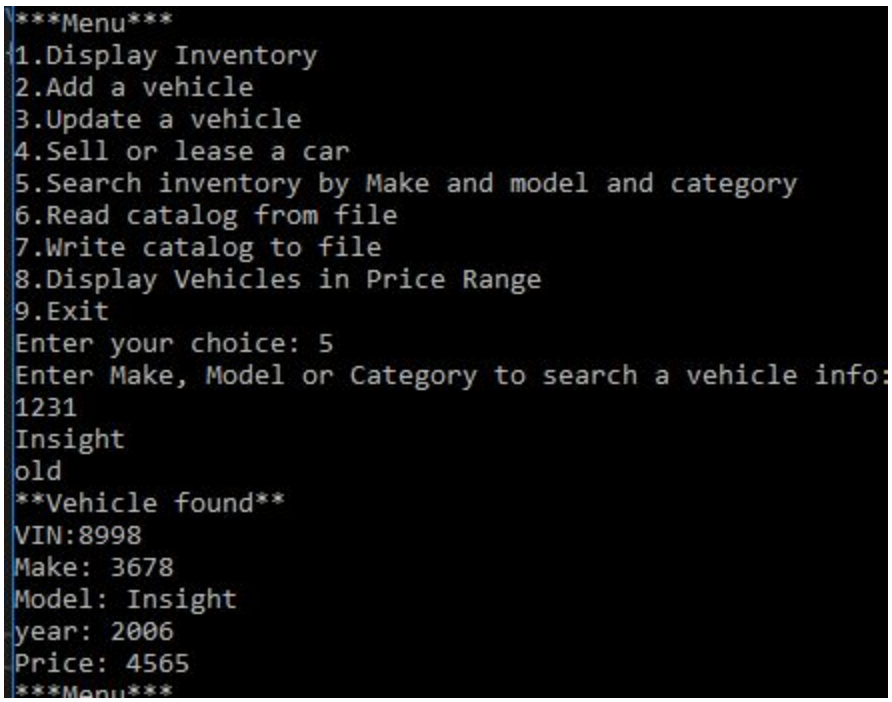
3) After that I tested to see if I could update the vehicle.



4) Forth I tested to make sure I could delete a vehicle from my inventory if it was sold or leased.



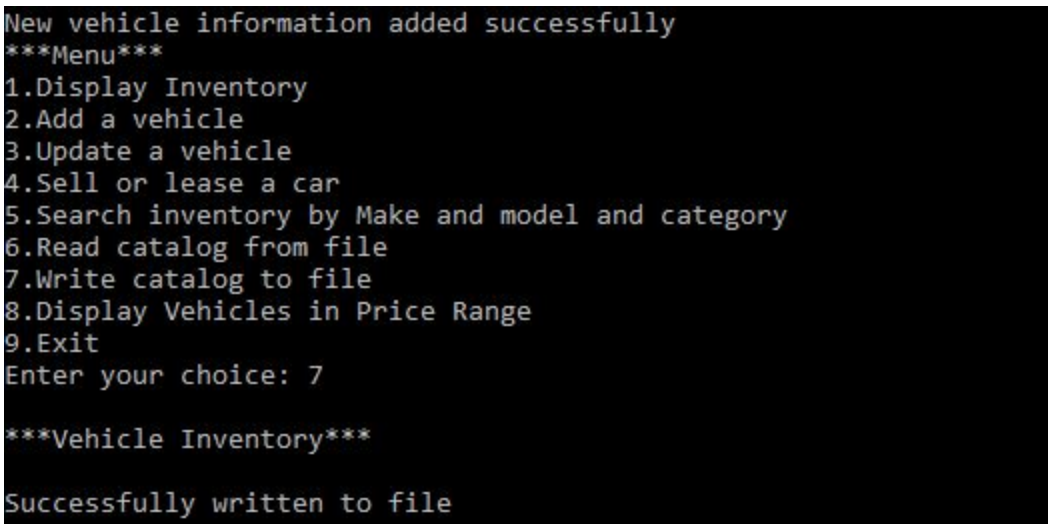
5) Then I made a search function to be able to search by make, model or category.



6) I made sure my program could receive input from a text file.

```
***Menu***
1.Display Inventory
2.Add a vehicle
3.Update a vehicle
4.Sell or lease a car
5.Search inventory by Make and model and category
6.Read catalog from file
7.Write catalog to file
8.Display Vehicles in Price Range
9.Exit
Enter your choice: 6
VIN:8993
Make:1456
Model:Civic
Year:2005
Price:3456
Category: Old
VIN:8998
Make:3678
Model:Insight
Year:2006
Price:4565
Category: New
VIN:8993
Make:3546
Model:Civic
Year:2005
Price:7896
Category: New
VIN:9800
Make:3234
Model:Prius
Year:2008
Price:6786
Category: Old
VIN:9995
Make:5865
Model:Insight
Year:2010
Price:7899
Category: New
VIN:8998
Make:6234
Model:Insight
Year:2006
Price:8907
Category: Old
```

7) I made sure my program could output into that same text file.



8) I made a function to be able to search for cars in a specific price range given from the user.

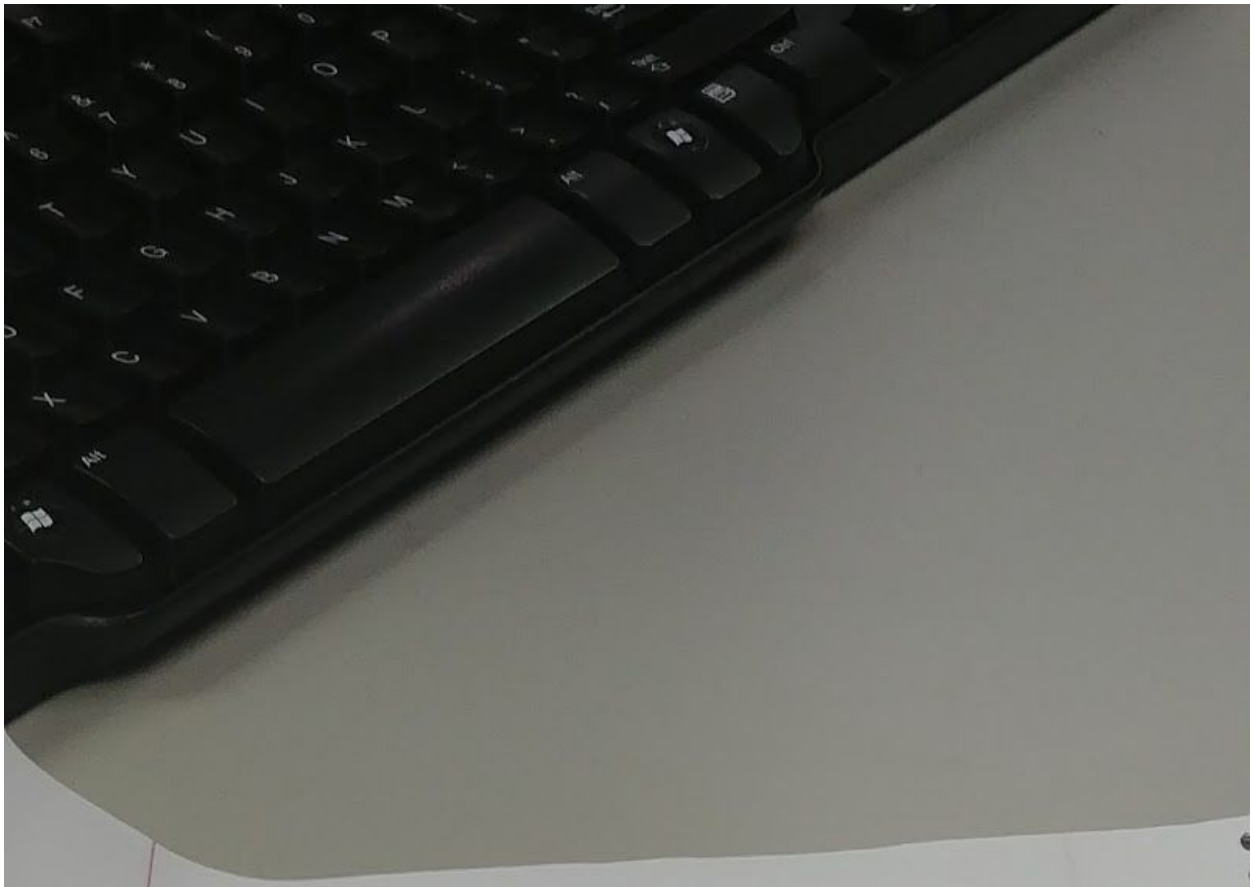
```
***Menu***
1.Display Inventory
2.Add a vehicle
3.Update a vehicle
4.Sell or lease a car
5.Search inventory by Make and model and category
6.Read catalog from file
7.Write catalog to file
8.Display Vehicles in Price Range
9.Exit
Enter your choice: 8
Enter Lowest Price
8000
Enter Highest Price
9000

***Vehicle Inventory within price range***:8000-9000
Vehicle:6
VIN:8998
Make: 6234
Model: Insight
year: 2006
Price: 8907
Category: Old
Vehicle:9
VIN:10000
Make: 2376
Model: Prius
year: 2008
Price: 8906
Category: Old
Vehicle:10
VIN:10000
Make: 2378
Model: Insight
year: 2010
Price: 8978
Category: New
Vehicle:15
VIN:9998
Make: 3423
Model: Prius
year: 2008
Price: 8675
Category: New
```

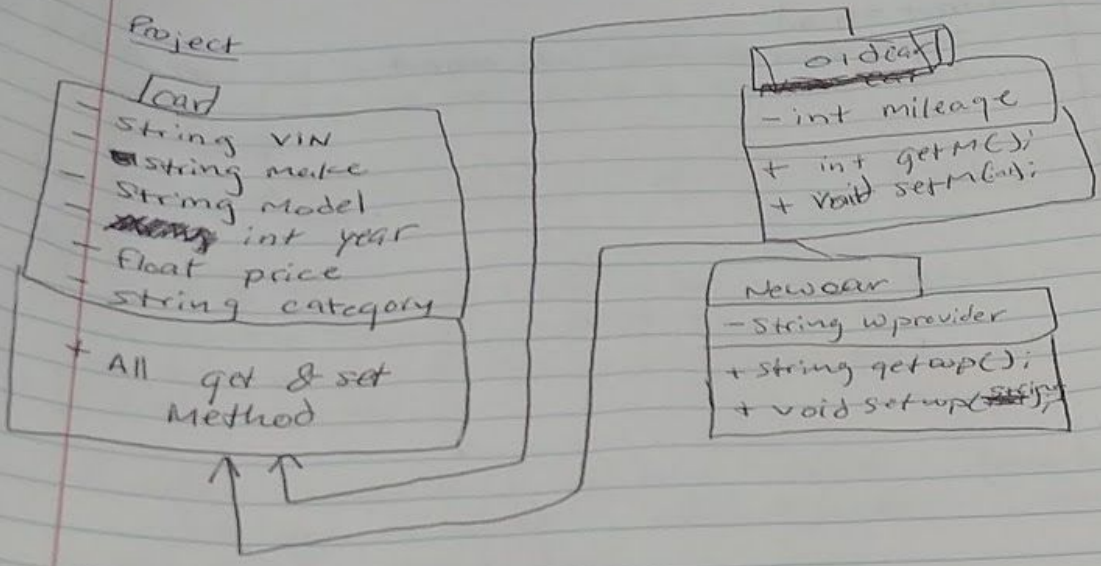
9) Then I made a exit function.

The exit function worked properly.

I used this template to create my project.



Project




```
int main()
{
    vector<oldcar> oCar;
    vector<newCar> nCar;        } inventory

    ShowMenu();
    searchInventory();
    removeInventory();          (sellOrLeaseCar();)
```

As shown above I first created a vehicle class with all my functions(set, get, and otherwise) inside of it. Then I created a separate file for the implementation of all my functions. Finally I created a main function to display my menu. Inside the main I put the menu.