Mohammed Uddin

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***Final Project: CAR DEALERSHIP***

For my dealership main menu, I choose to stick with menu that shows on the doc, First the name of the dealership after that menu starts with first option being Search inventory by the make of car, model of the car, price range of the car and by category. I used polymorphism on my search function. Second option is sell and lease car which lets you sell the old car and new car and only lease the new cars. My third option is to return a lease car if you have any on the lease car file it should goes to the old car inventory and fourth option is to add new and old car to the inventory which goes to files new car goes to Newvehicles.txt and old car goes to the oldvehicles.txt and lastly fifth option which lets you exit the program. I have added test of the program along with the screenshots.

Old Car Inventory:

Text

Description automatically generated

New Car Inventory:

Text

Description automatically generated

***My Test plan Step by Step with Screenshot of the program:***

When you run the program, The Main Menu comes up showing the options of the dealership:

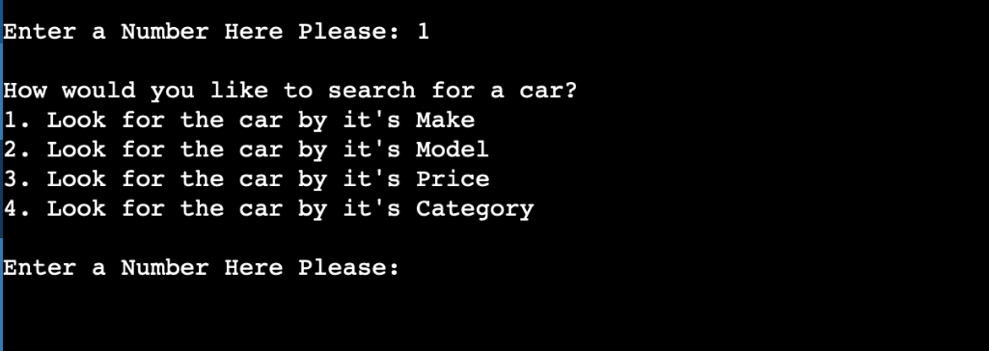
A picture containing text

Description automatically generated

The first option is to search the cars from inventory by make, model, year and category.

And If I try pressing any other button that not on the menu it just goes to the main menu again

Press 1 to search the inventory by make, model, price and category



Again press 1 to see the cars by the make of the cars from the inventory:

Text

Description automatically generated

Text

Description automatically generated

And if we try with something that is not in the inventory it gives you a message saying this:

Text

Description automatically generated with medium confidence

Press 2 to see the cars by the model of the cars from the inventory:

Text

Description automatically generated with medium confidence

Press 3 to see the cars by the price range of the cars from the inventory:

Text

Description automatically generated

Press 4 to see the cars by the category of the cars from the inventory:

Text

Description automatically generated

Now we going to second option from the menu to sell and lease the cars from the inventory:

Text

Description automatically generated

Selling Cars from the old inventory and new inventory from the second selection:

Press 1 to sell a car and again press 1 to sell from new cars inventory:

Text

Description automatically generated

Before selling the car from the new car inventory:

Text

Description automatically generated

And after selling the car from the new car inventory:

Text

Description automatically generated

Again Press 1 to sell a car and press 2 to sell from old cars inventory:

Text

Description automatically generated

Before selling the car from the old car inventory:

Text

Description automatically generated

After selling the car from the old car inventory:

Text

Description automatically generated

Leasing Cars from the old inventory and new inventory from the second selection:

In my dealership I can only lease from the new cars inventory:

A picture containing text

Description automatically generated

After leasing the car, Car gets removed from the inventory and stored to a new file called lesedvehicles.txt.

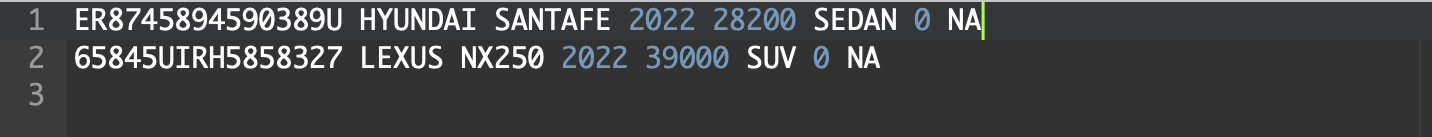
In this case I have leased The Lexus nx250

Car got remove from the inventory

Text

Description automatically generated

And stored to the new file



The Third selection from the menu is return a leased car:

A picture containing text

Description automatically generated

After returning a leased car from the leasedvehicles.txt file it gets removed from the file saves in the old cars inventory.

leasedvehicles.txt

Text

Description automatically generated

Old cars inventory

Text

Description automatically generated

The fourth selection from the main menu is adding a new and old car to the inventory:

Adding a new car to the inventory:

Text

Description automatically generated

After the new car has been added the new cars inventory:

Text

Description automatically generated

Adding an old to the inventory:

Graphical user interface, text, application

Description automatically generated

After the old car has been added the old cars inventory:

Text

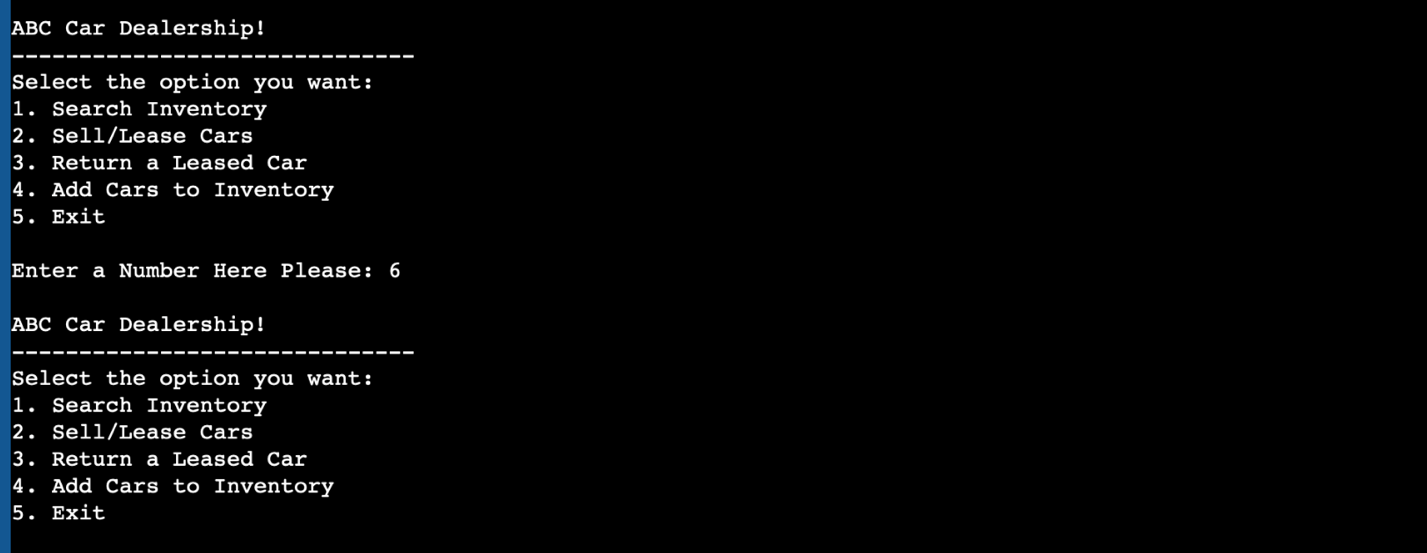
Description automatically generated

The Fifth selection from the main menu is Exit:

Text

Description automatically generated

And if I try to exit with different number, it just goes to main menu:



For the Extra Credit I have added the price range option, so it shows the cars in the range:

Text

Description automatically generated

Also, I made oldvehicles.txt and Newvehicles.txt files where my old cars and new cars being leased and sold from also when I return the leased cars goes to the old cars inventory.

***Thank you, Professor you have a wonderful holiday and Happy New Year!!***