|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test # | Test | Expected Outcome | Actual Outcome | Comments |
| 1 | Looping menu with 3 main actions | User is given 3 options to choose from | User is given 3 options to choose from | I was able to do this successfully. |
| 2 | Contains 3 arrays as a minimum. (price, model, stock) | Program has 3 arrays with a set of values. | Program has 3 arrays with a set of values | Met these three arrays, also had an array for customer names. |
| 3 | Viewing cars shows model and stock levels, existing arrays update to reflect sales data | User can see which cars are available to purchase | User can see which cars are available to purchase | Stock levels are live and become updated when user purchases a car |
| 4 | All data input is validated | User is asked until they input correct values | User is asked until they input correct values | Questions loops until input is satisfied |
| 5 | Sales figures are displayed as total sum for car model | Viewing sales show sales of each model type | Viewing sales show sales of each model type | Each car type was increasing as they were bought |
| 6 | Data is stored in a file | A CSV file stored sales data | A CSV file stored sales data | A file is created and stores sales data |
| 7 | When software launches previous sales data is stored | User can view previous sales data | User can view previous sales data | Sales data is stored even after software is terminated |
| 8 | Exiting software thanks, the user before closing | Program issues thank you message | Program issues thank you message | Menu system has exit option, which outputs thank you message. |
| 9 | Make use of topics that have not been taught | Software includes program that have not been taught | Software includes program that have not been taught | I researched online to use different features in c |
| 10 | Program follows recommended coding standards and good practise | Follow coding standards throughout program | Follow coding standards throughout program | Indentation and pretty outputs are used |

This is the logbook for my car sales project I was assigned as part of my IntroToProgramming module. I was required to program in C and was given a set of requirements to follow. Essentially, I was required to create a car sales software.

Pseudocode:

Print(welcome to Rafs car sale!)

print (View cars? Buy cars? View sales? Exit program?)

if view cars

print cars available and stock

else buy cars

print(what is your name?)

Hello(name)

print (cars)

which car do you wish to purchase?

If car not in stock

Print (error not in stock)

return

else

you have purchased your car

save data to file

else if view sales

read file

print(sales figures)

else if exit program

thank you for visiting this car sales program

save data to file

In stock

Not In stock

Choose a car

yes

Buy cars?y/n

No

Print cars

yes

View cars ?y/n

Welcome to Rafs car sale

Car purchased

Save to file

no

No

yes

Exit program? Y/n

No

Open file

Print sales

yes

View sales?y/n