Chad Galloway

CST-250 Programming in C# II

Grand Canyon University

Oct. 26, 2025

Activity 1

Files

<https://github.com/CGalloway3/CST-250-Projects/tree/master/Activity%201>

Video

[Video Link]

**Part 1**

FLOW CHART

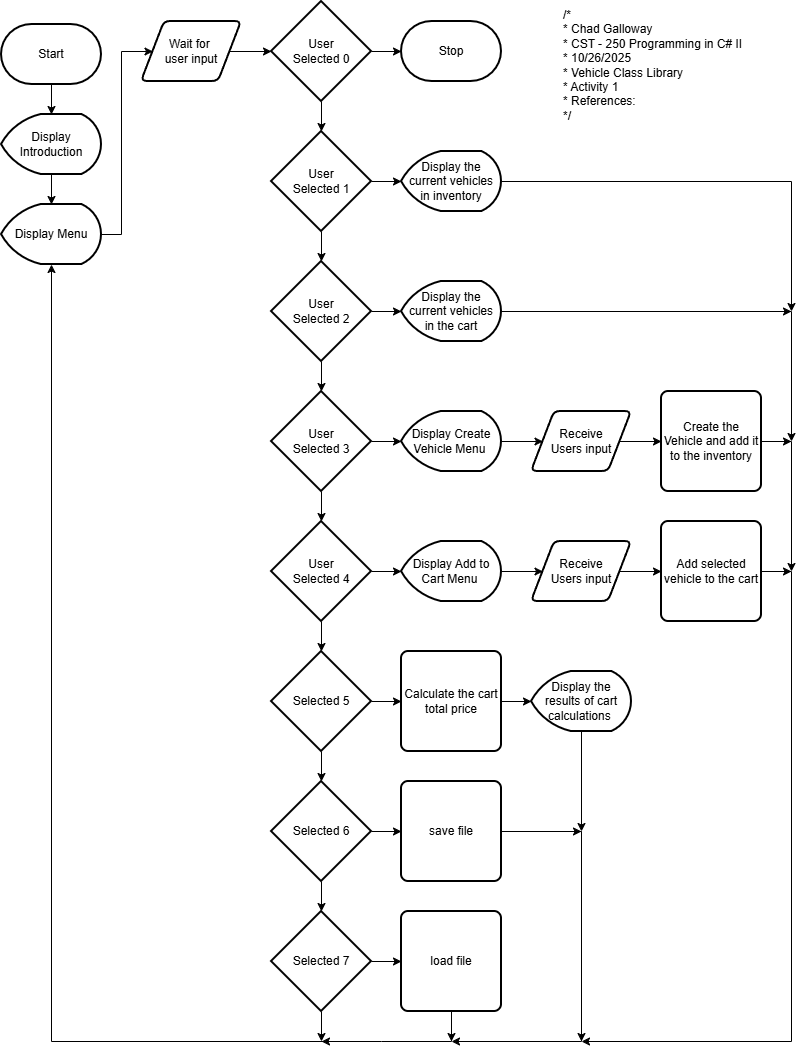


Figure X: Flow chart of XXXXXXX

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UML Class Diagram

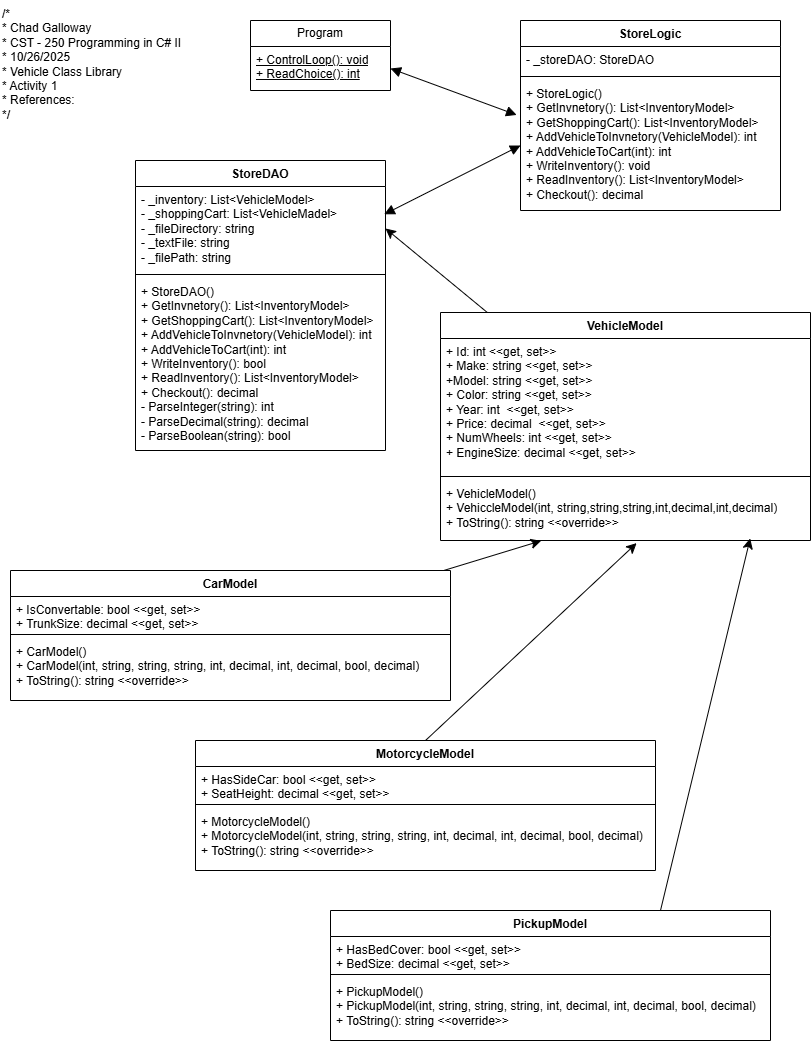


Figure X: UML Class Diagram

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Screen Shots

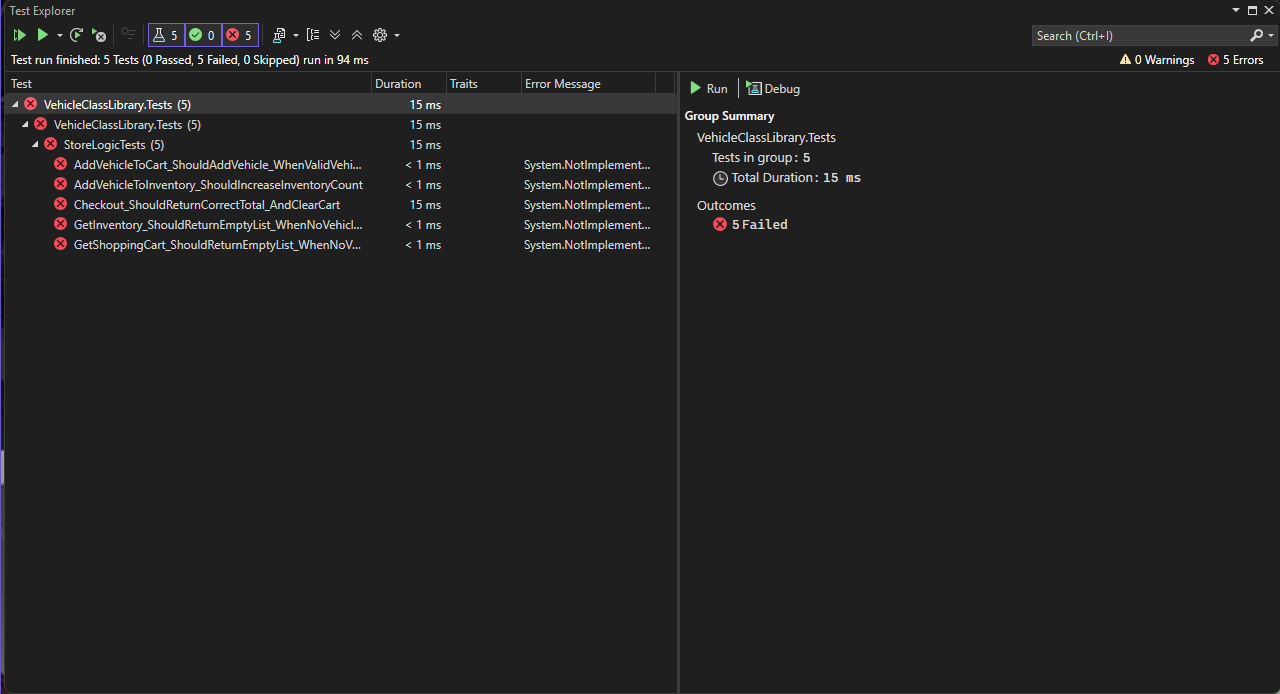


Figure 3: Screenshot of xUnit test

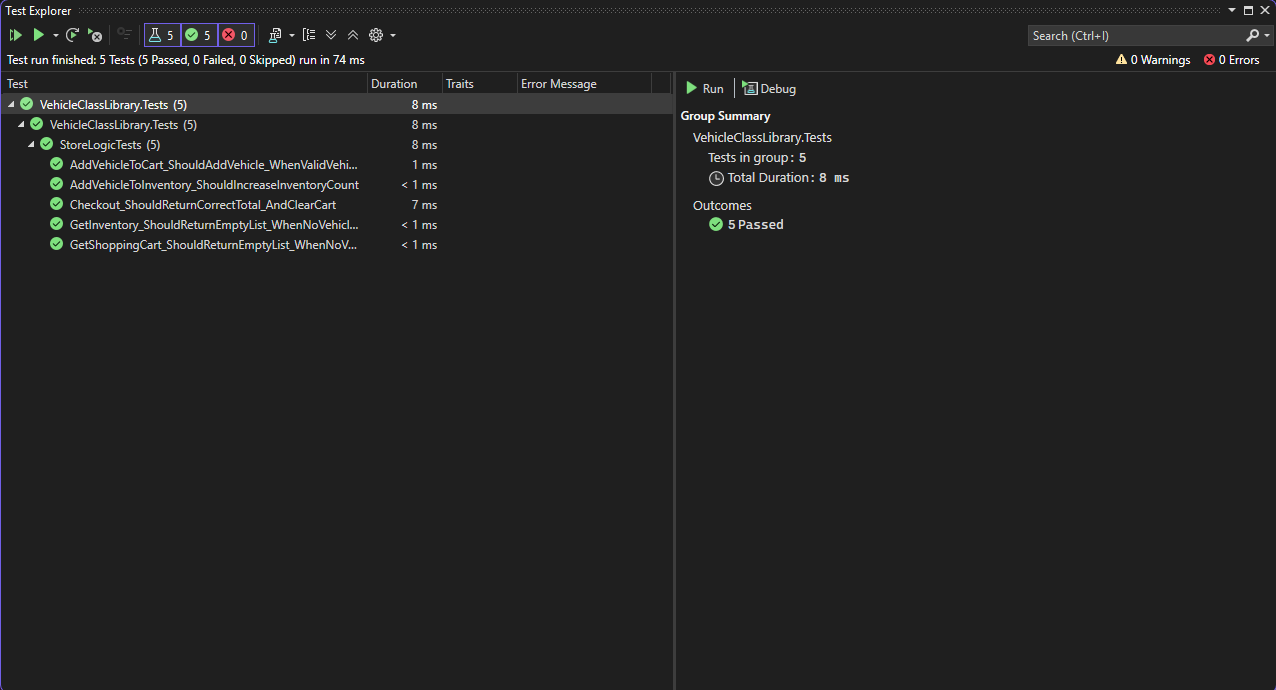


Figure 4: Screenshot of unit test

Figure 3 and 4 are screenshots of the unit tests. 3 is unsuccessful and 4 is successful completion of the tests.

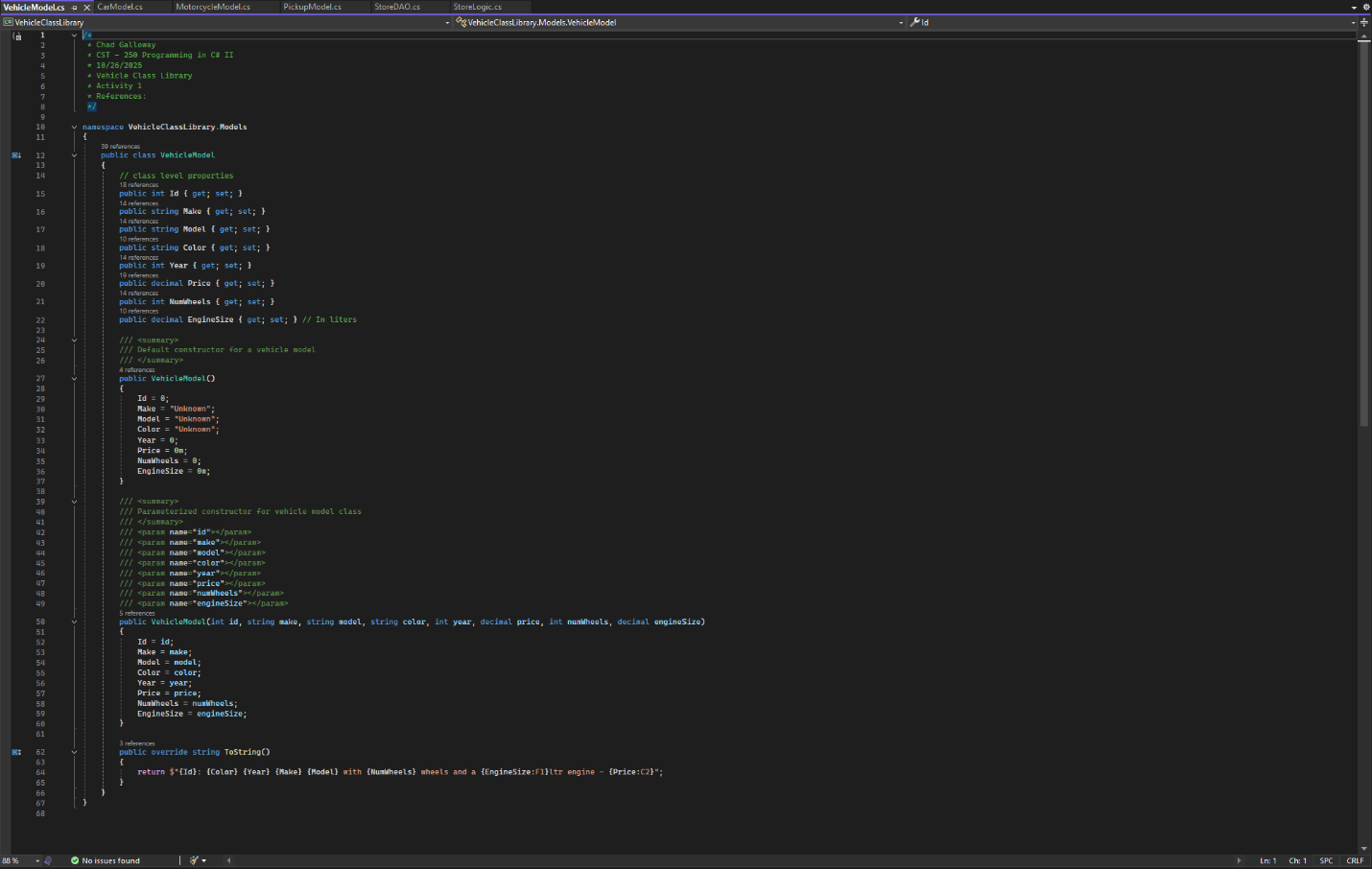


Figure 5: Vehicle Model

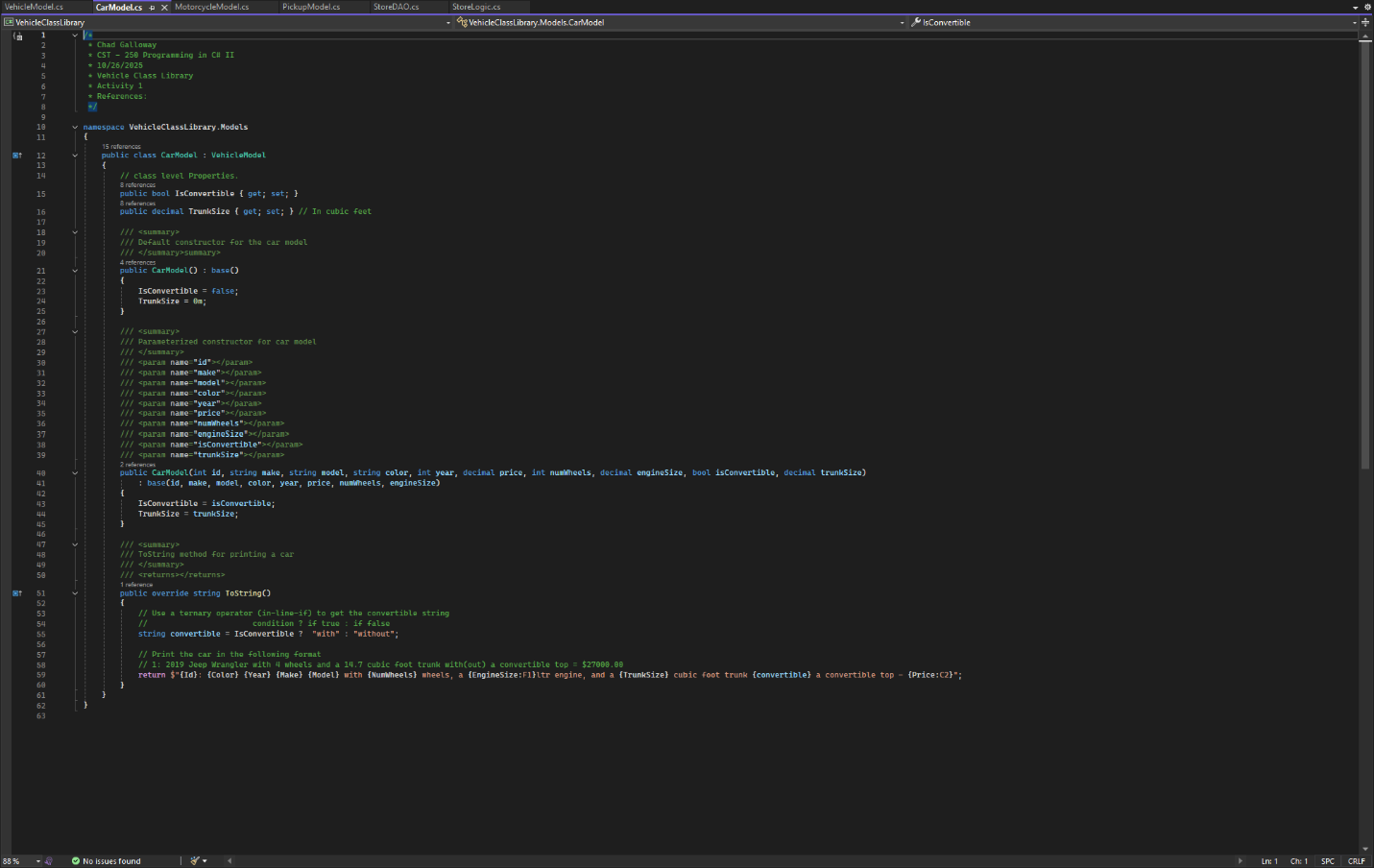


Figure 6: Car Model

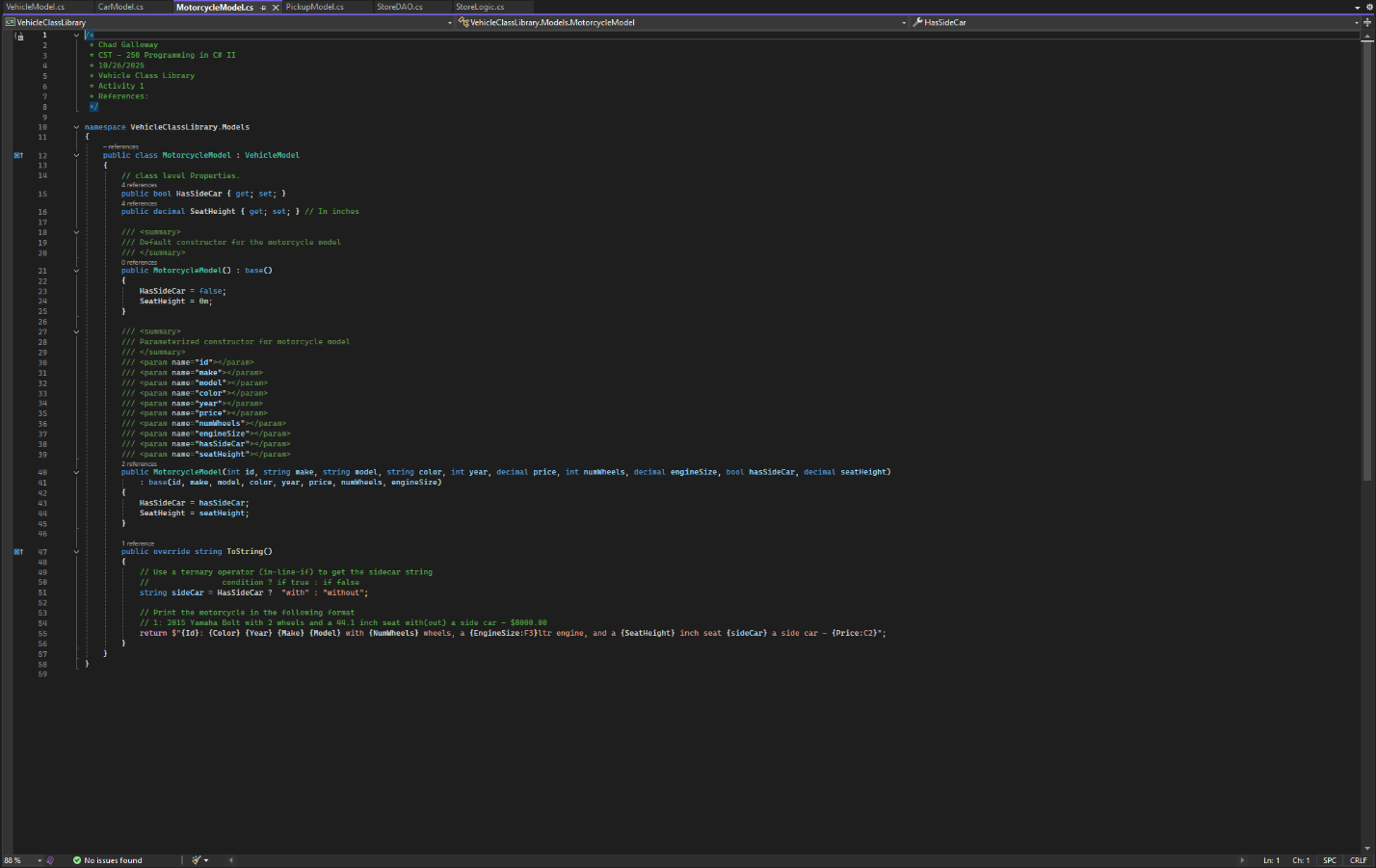


Figure 7: Motorcycle Model

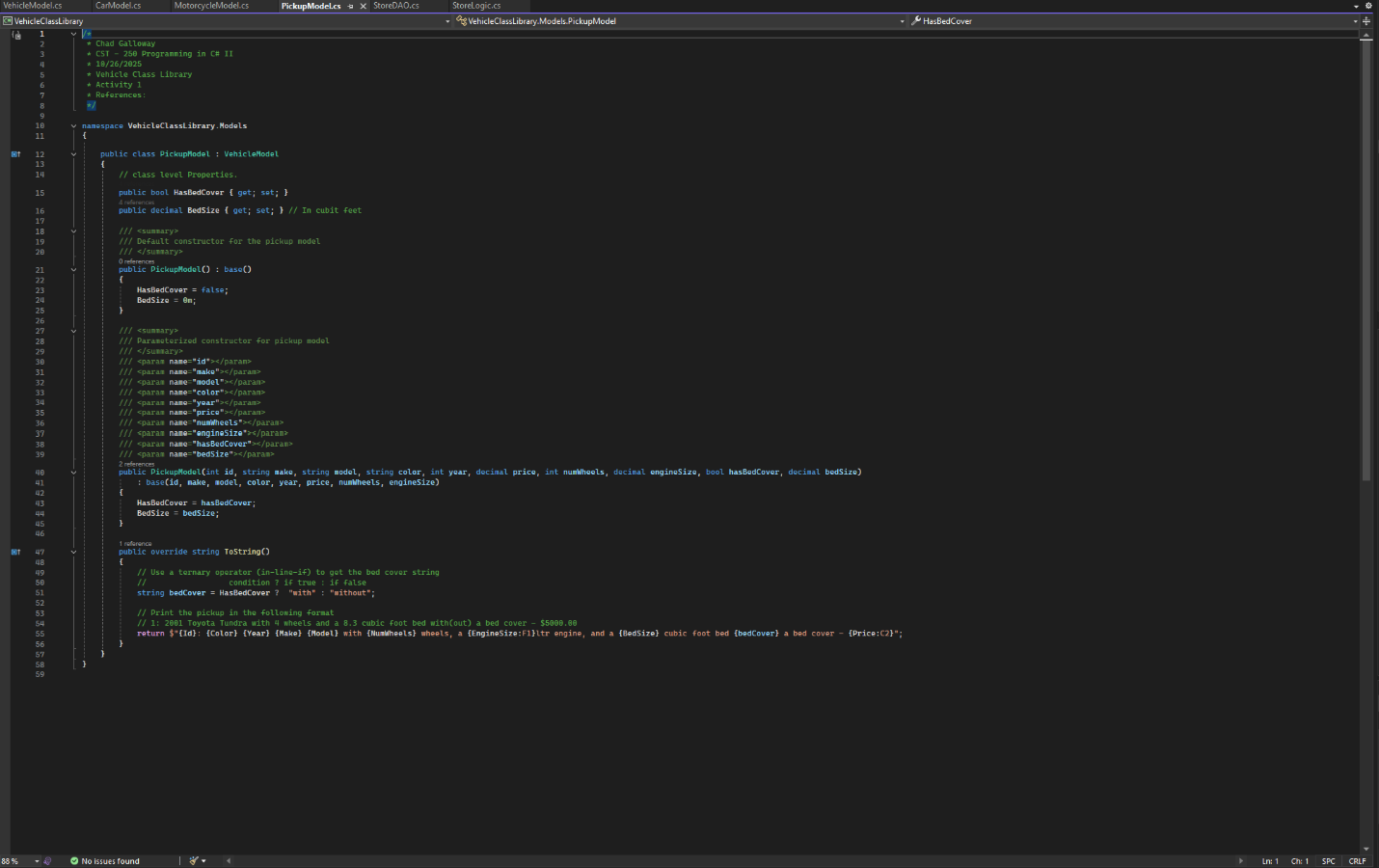


Figure 8: pickup model

Figures 5, 6, 7, and 8 are screen shots of the different models for vehicles in the application. Each screenshot covers the citations, constructors, and the overridden ToString() methods.

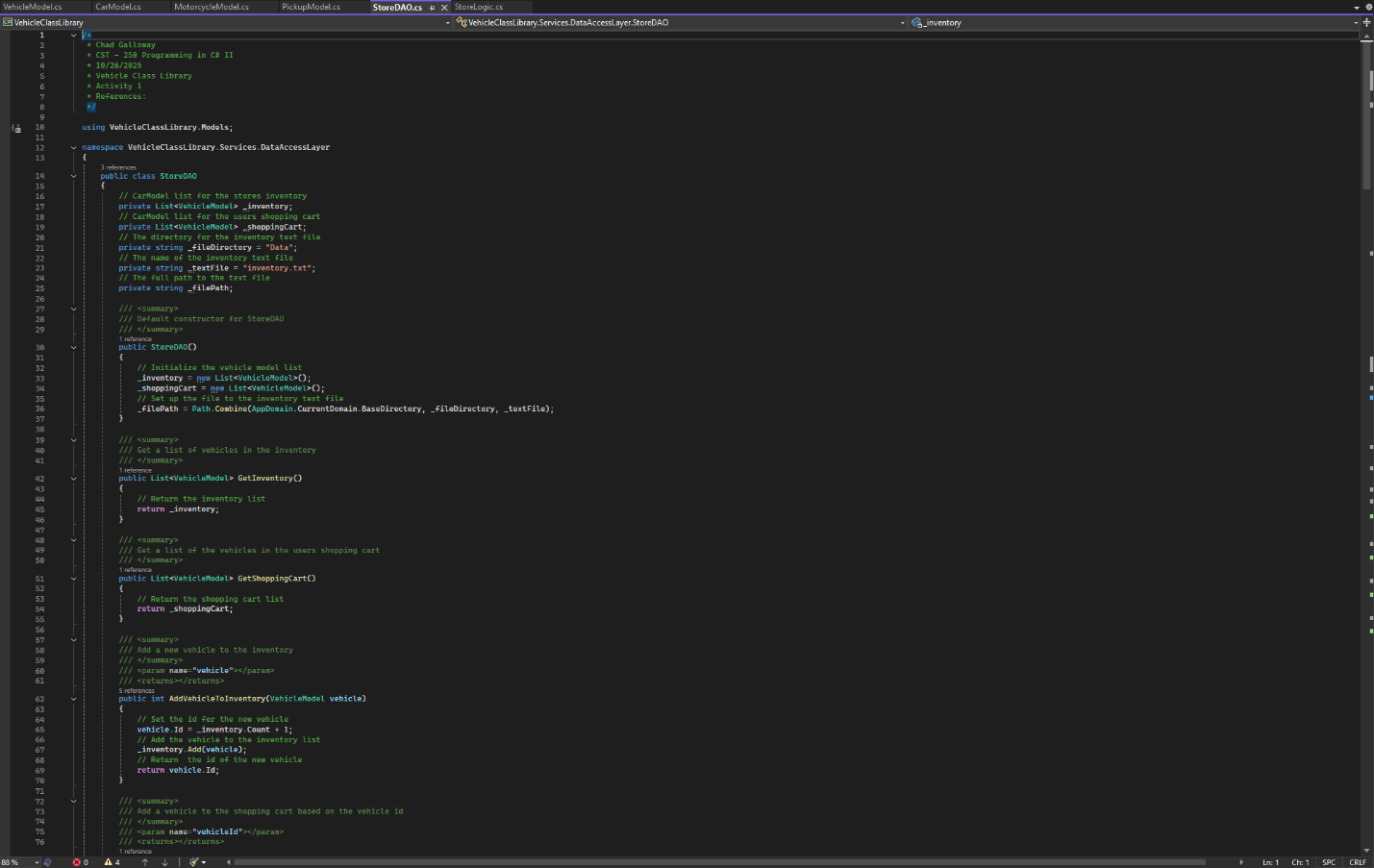


Figure 9: StoreDAO citations and constructors.

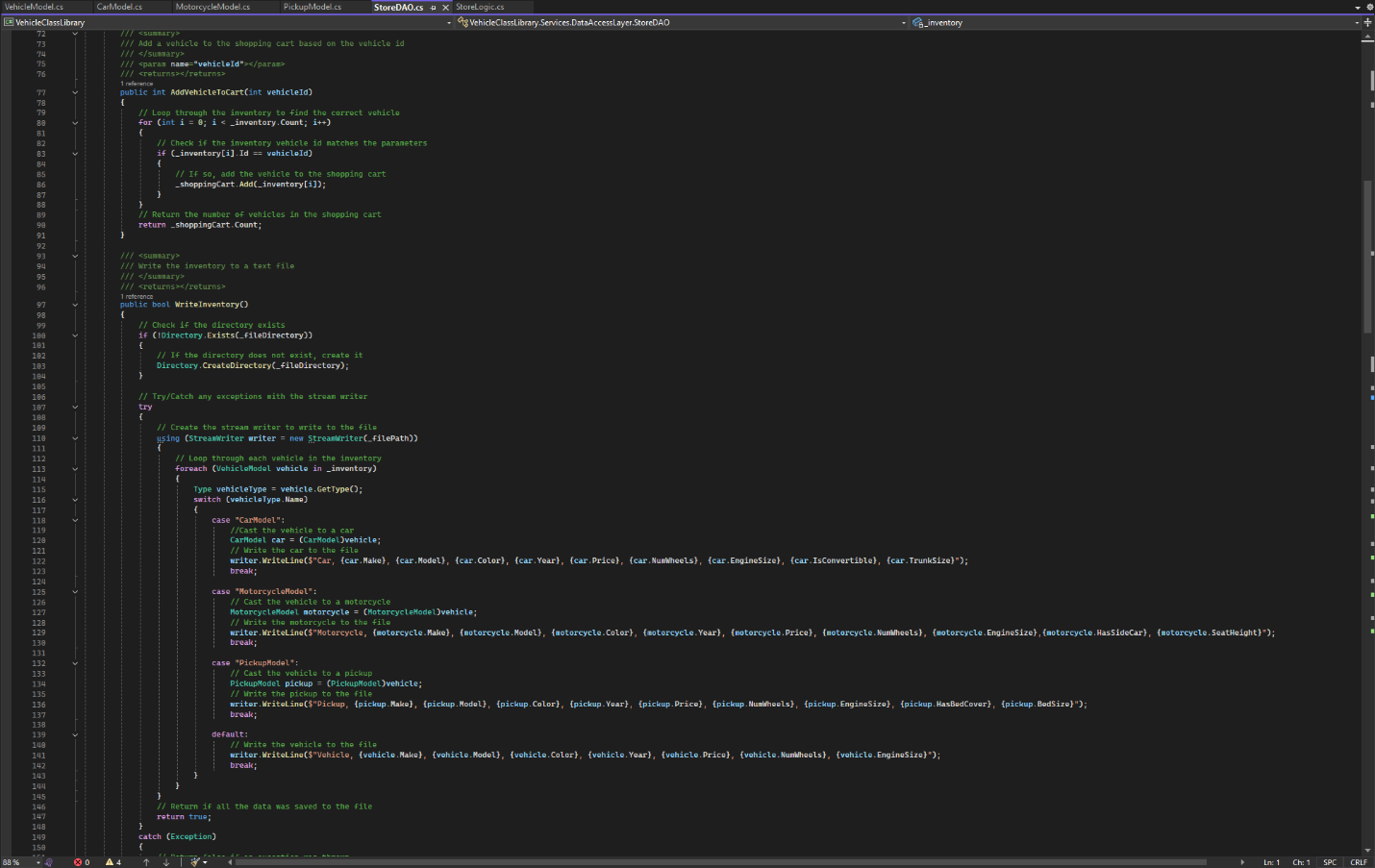


Figure 10: continuation of StoreDAO

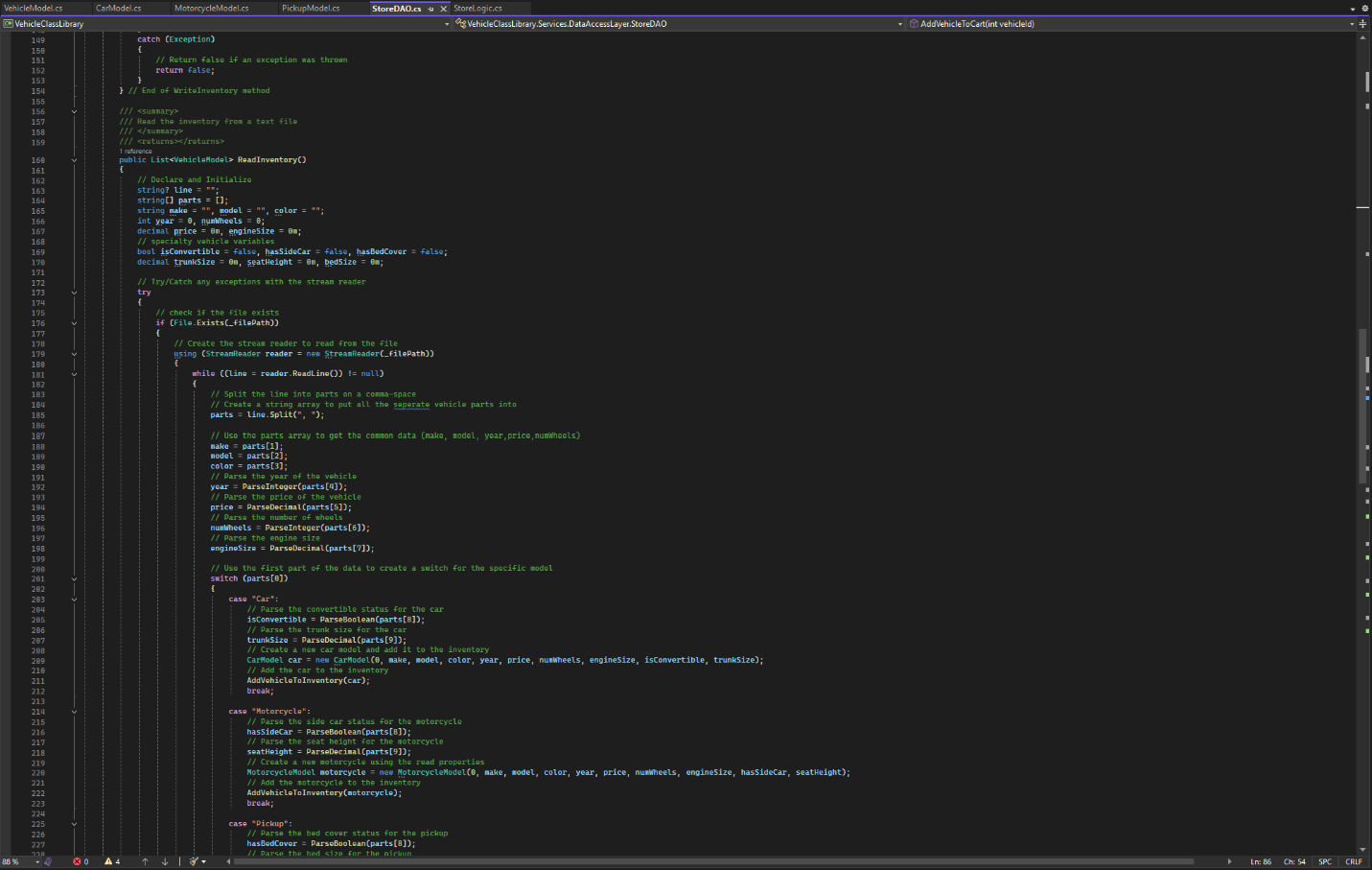


Figure 11: continuation of StoreDAO

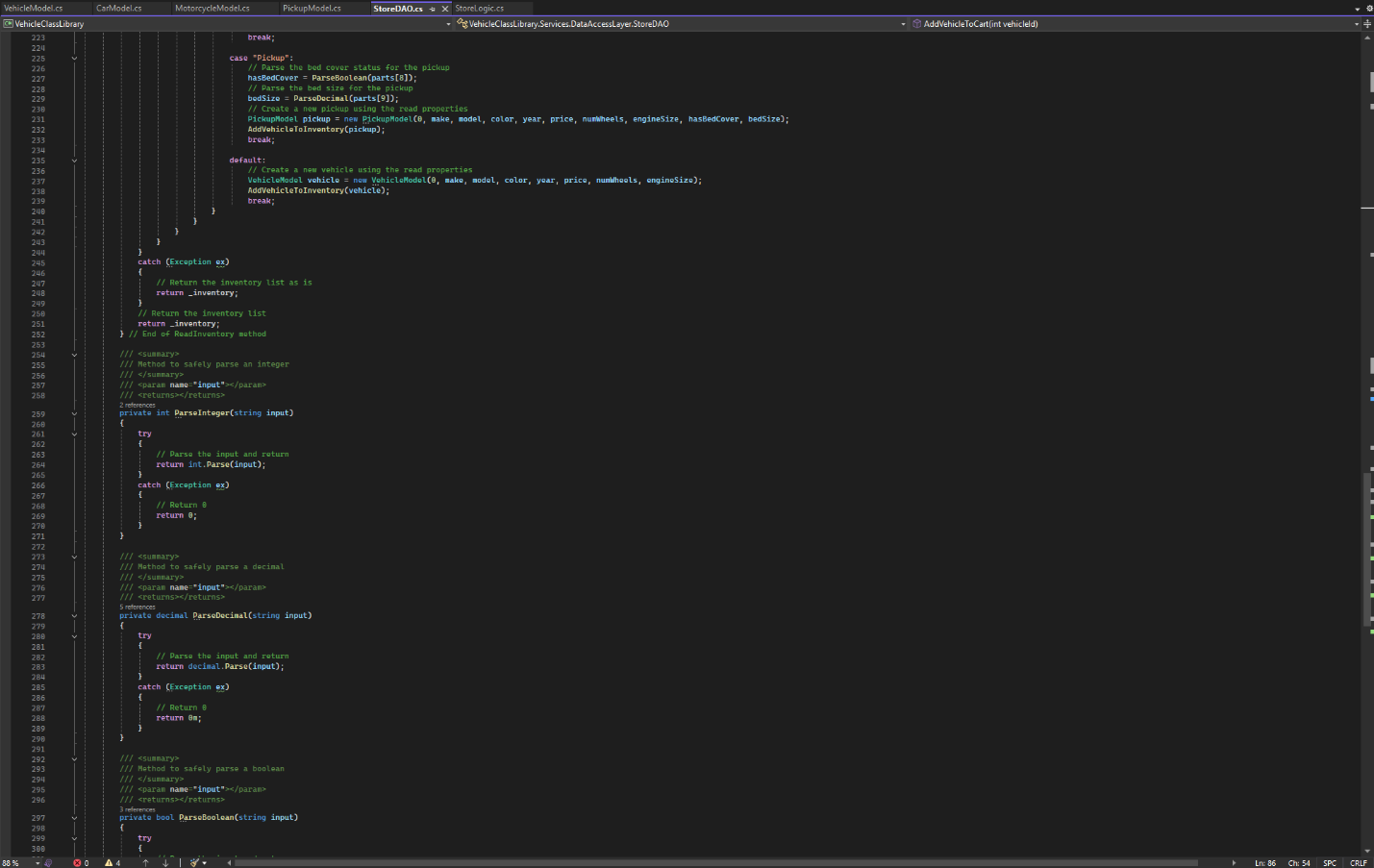


Figure 12: continuation of StoreDAO

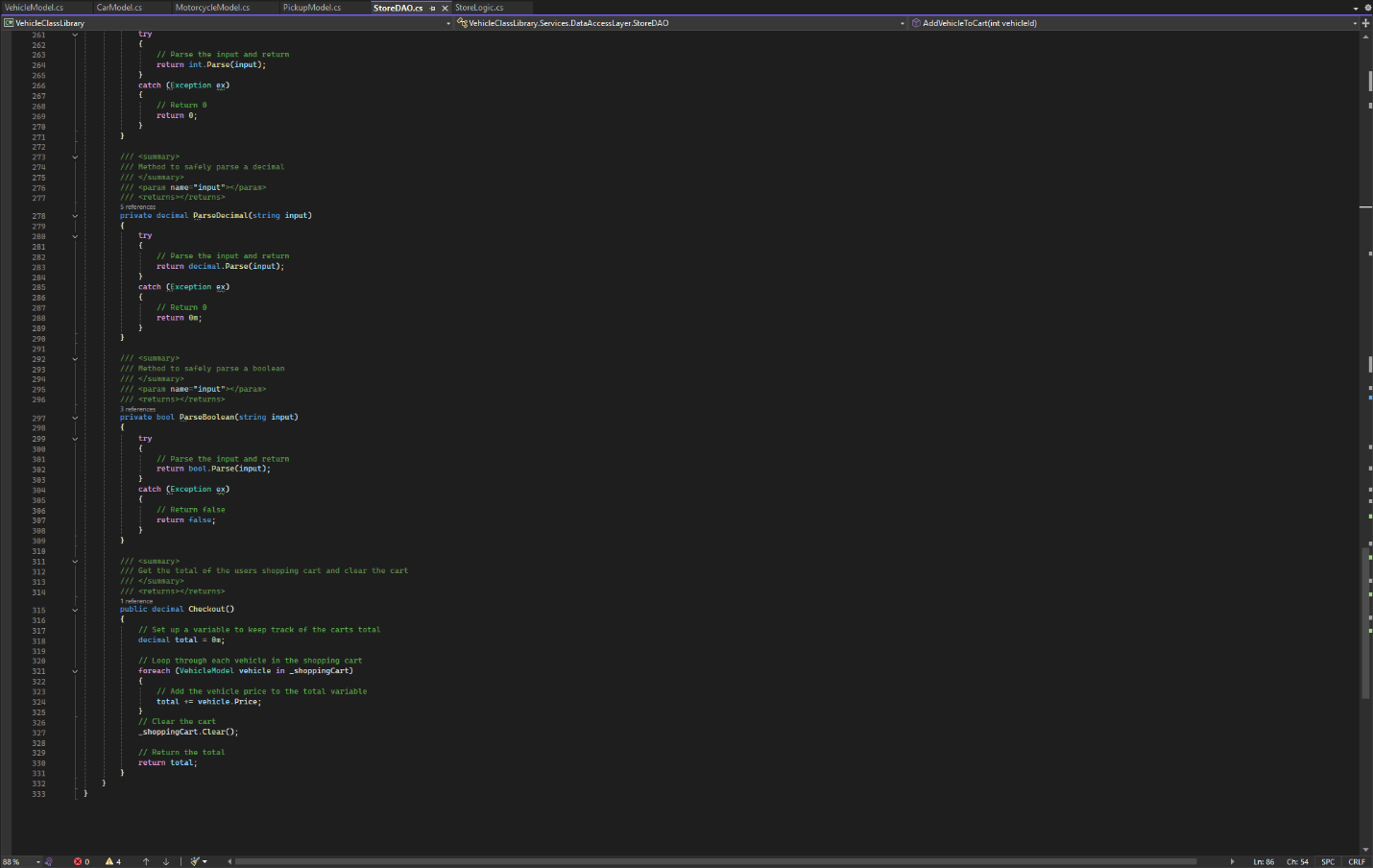


Figure 13: Final screenshot of StoreDAO

Figures 9-13 are screen shots of the StoreDAO class in its entirety. Every method is represented in the screen shots.

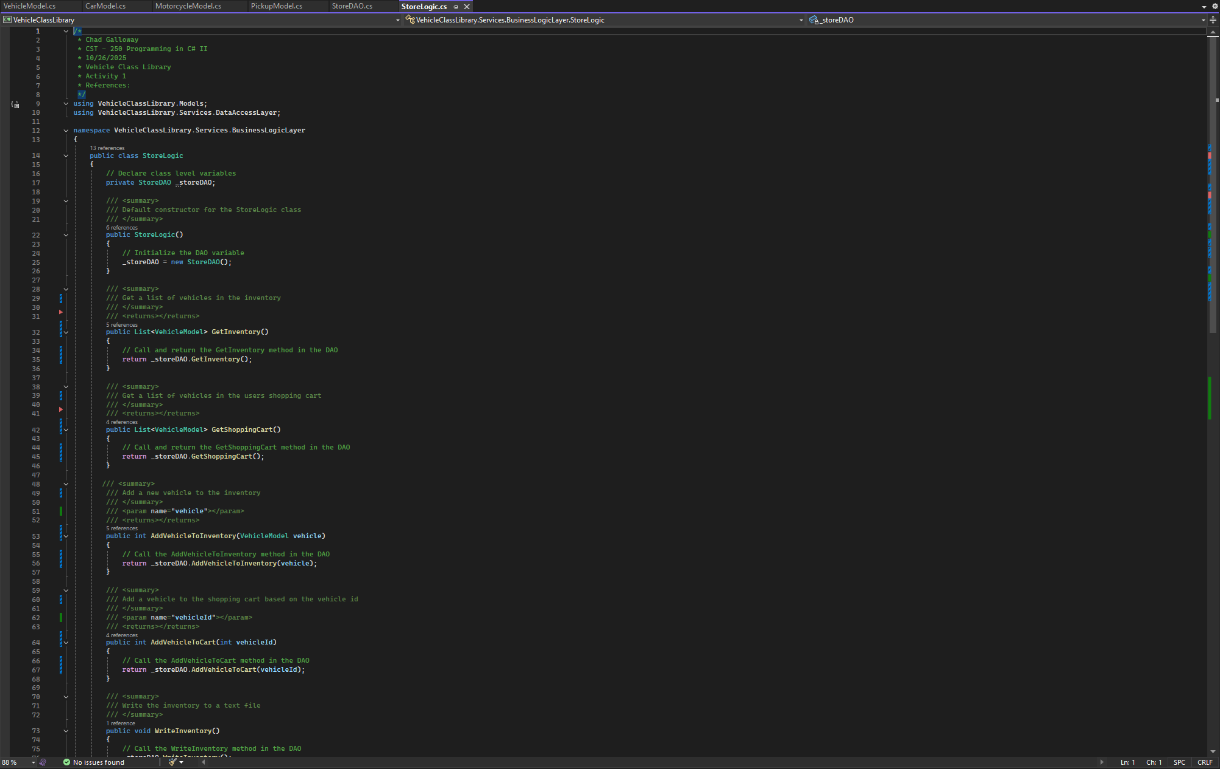


Figure 14: StoreLogic class citations and constructor

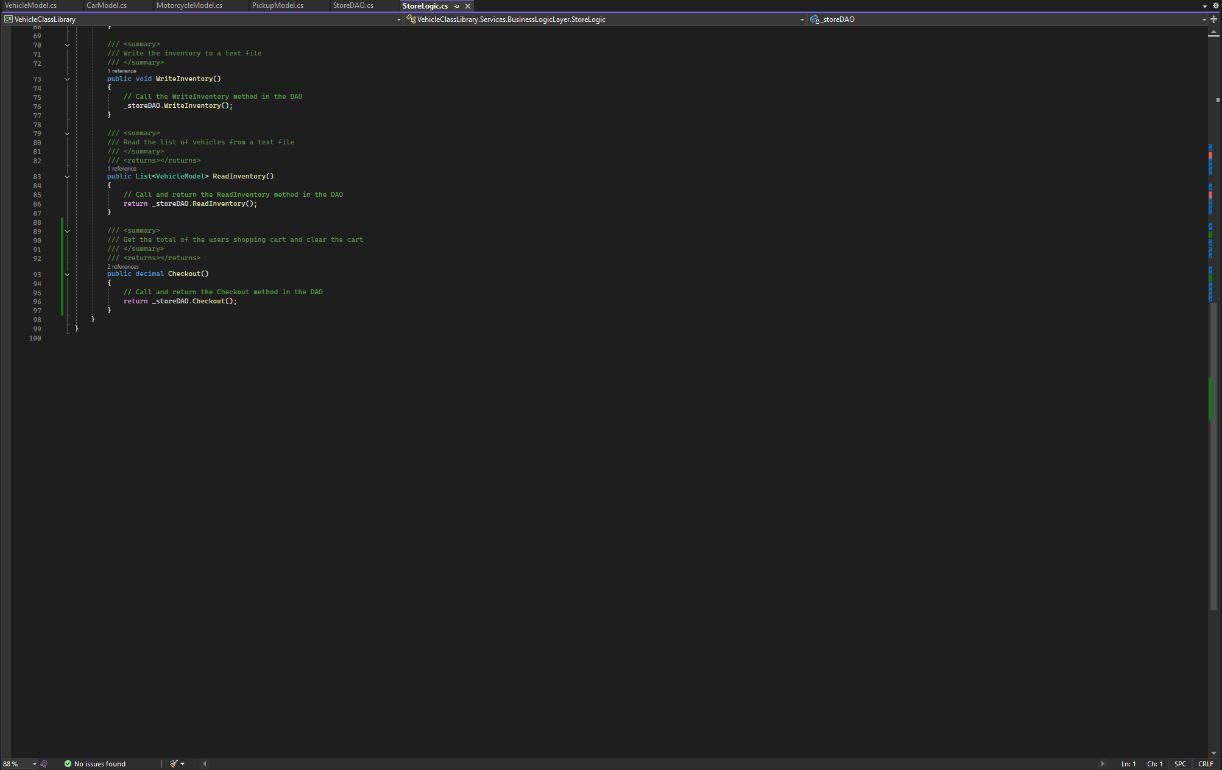


Figure 15: StoreLogic methods

Figure 14 and 15 are screenshots of the StoreLogic class.

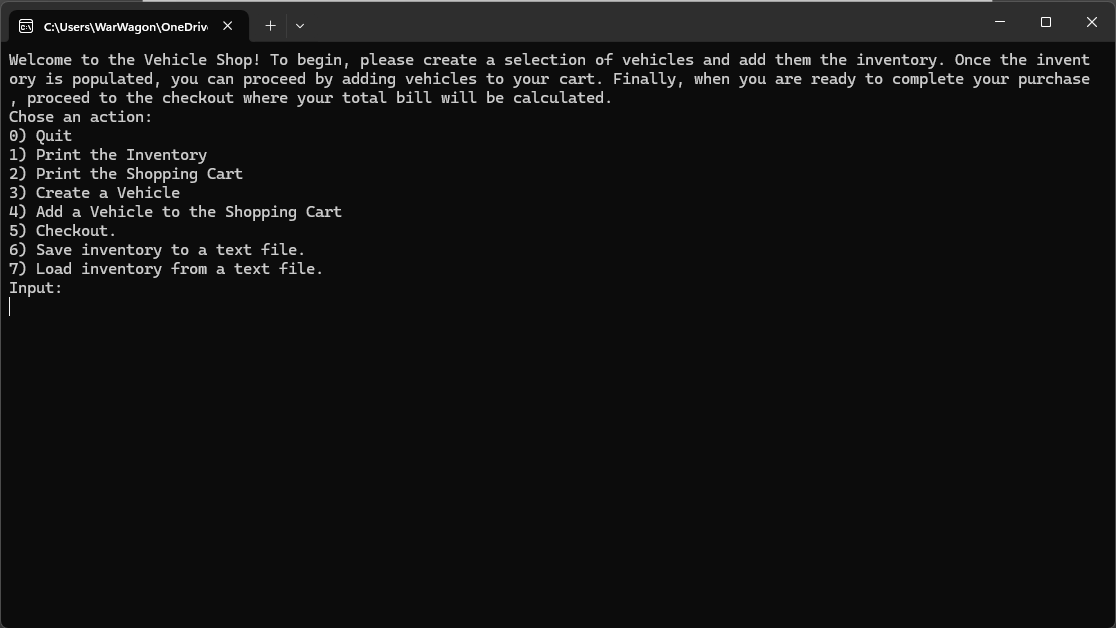
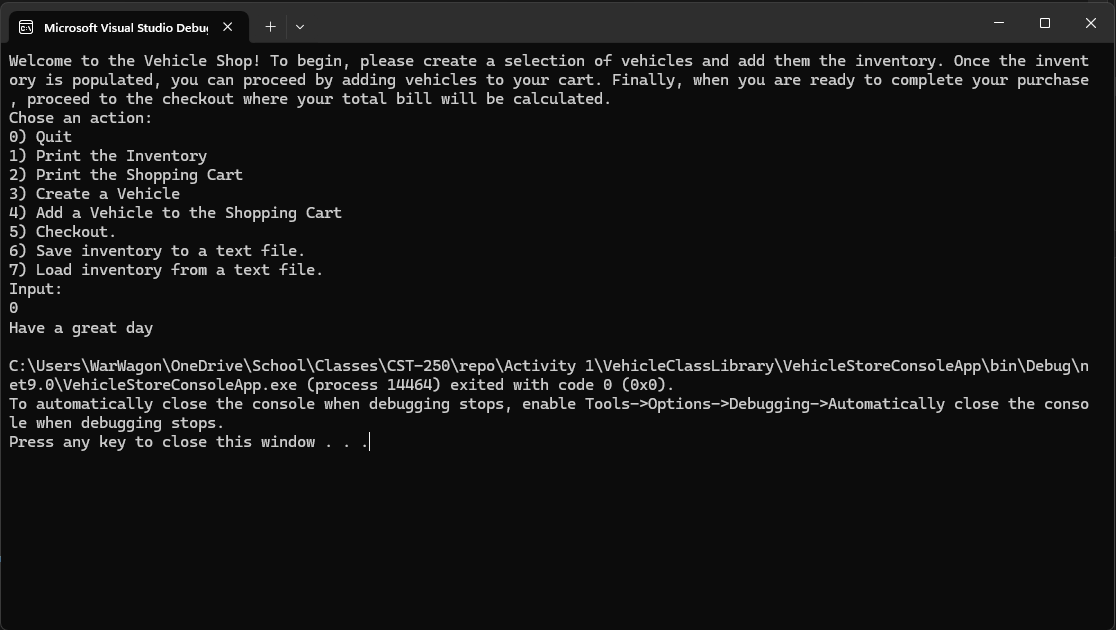


Figure 16: Initial load state of the console app

Figure 17: user input 0

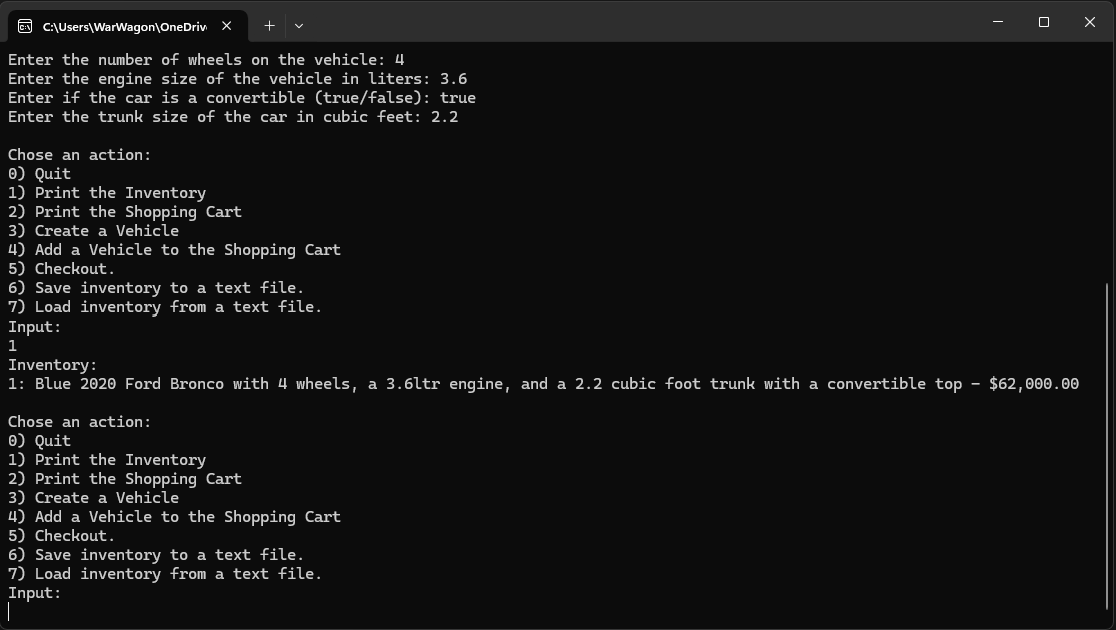


Figure 18: user input 1

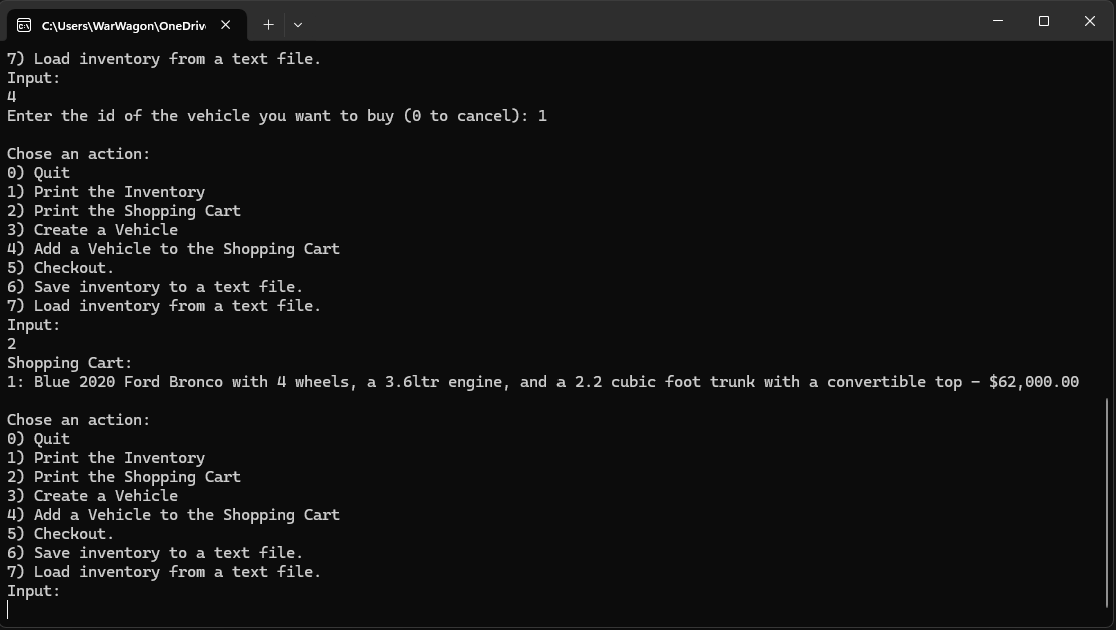


Figure 19: user input 2

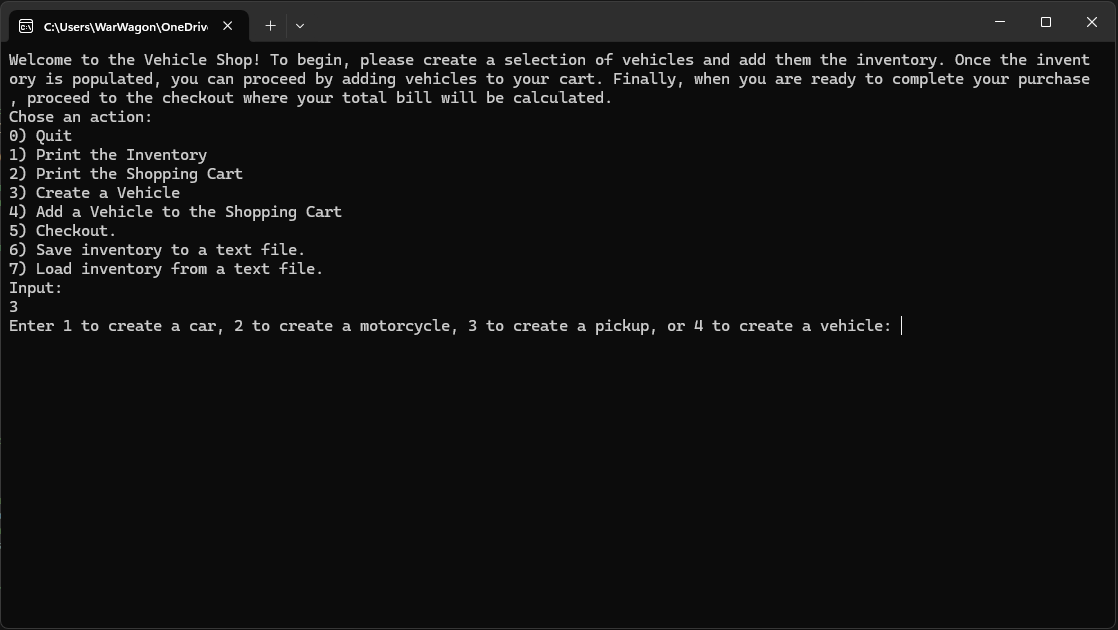


Figure 20: user input 3

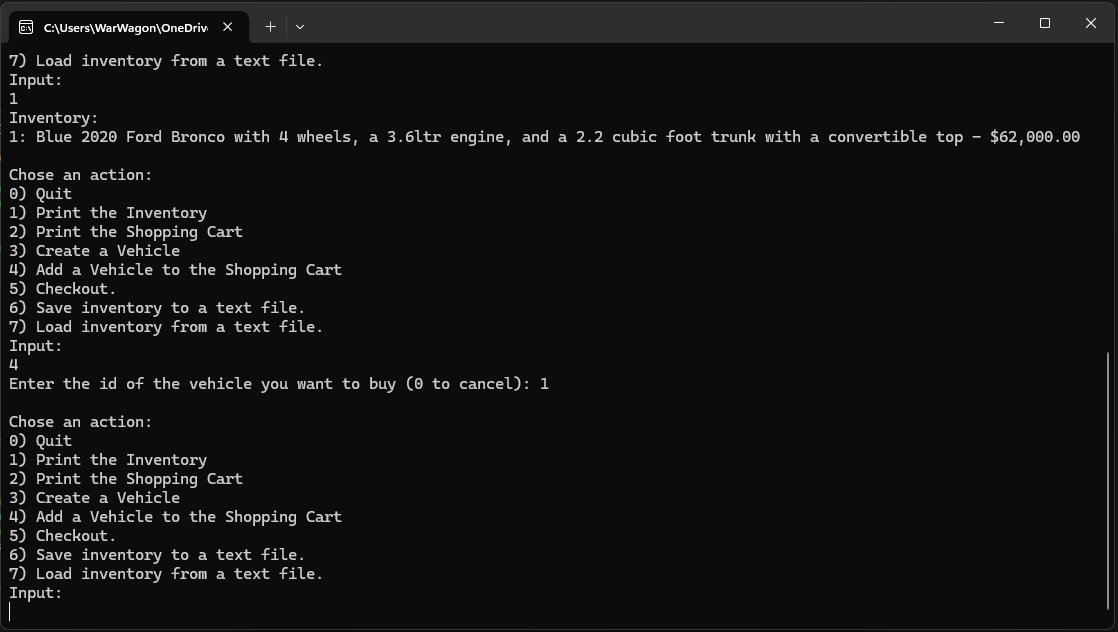


Figure 21: user input 4

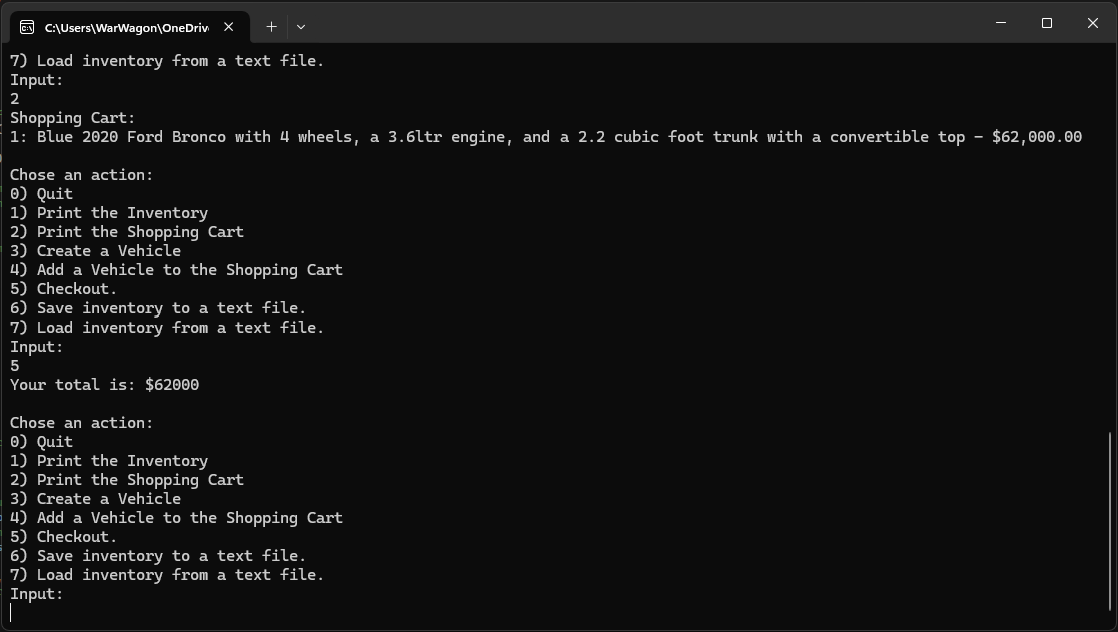


Figure 22: user input 5

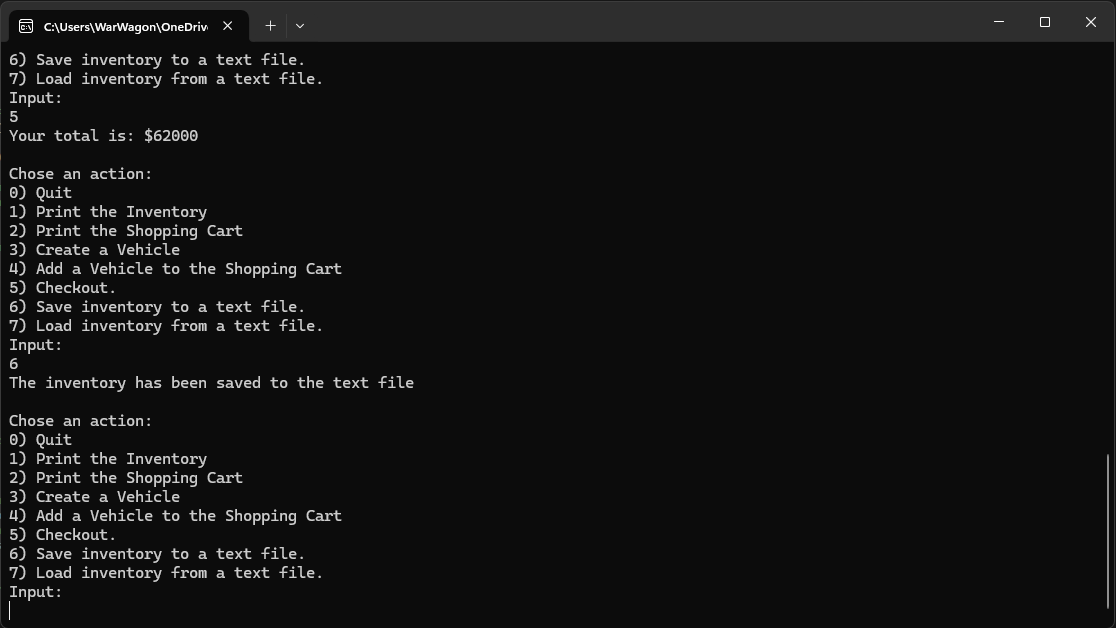


Figure 23: user input 6

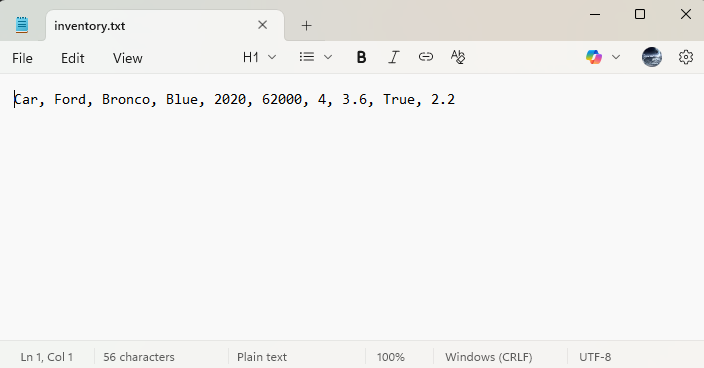


Figure 24: File contents after save (number 6)

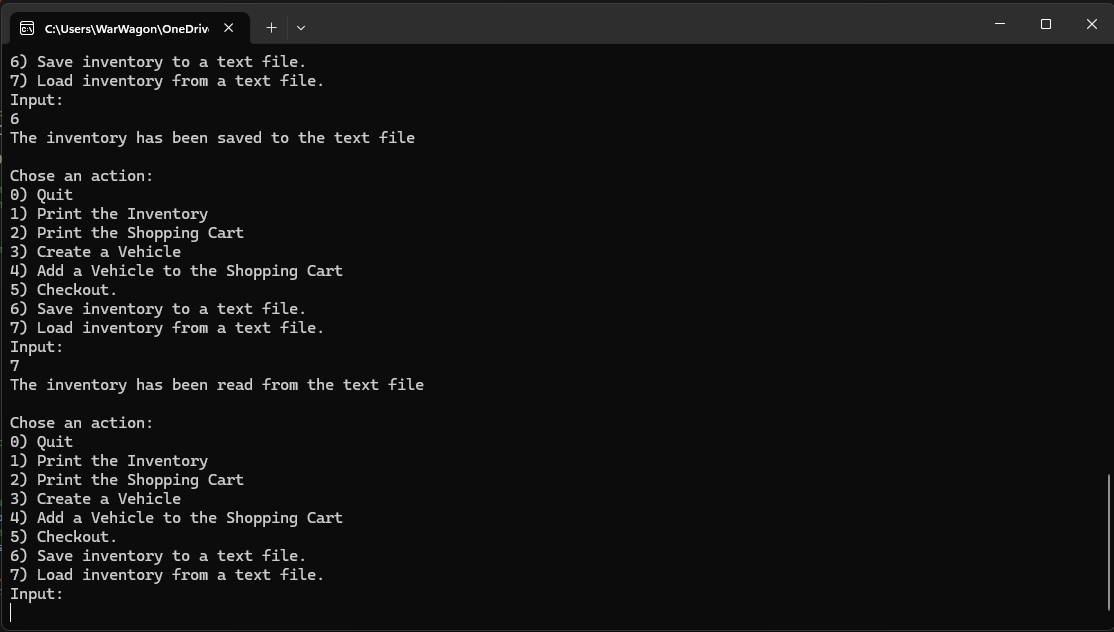
Figure 25: user input 7

Figure 16- 25 are screenshots of the application running and demonstrating the different menu option selections made by the user

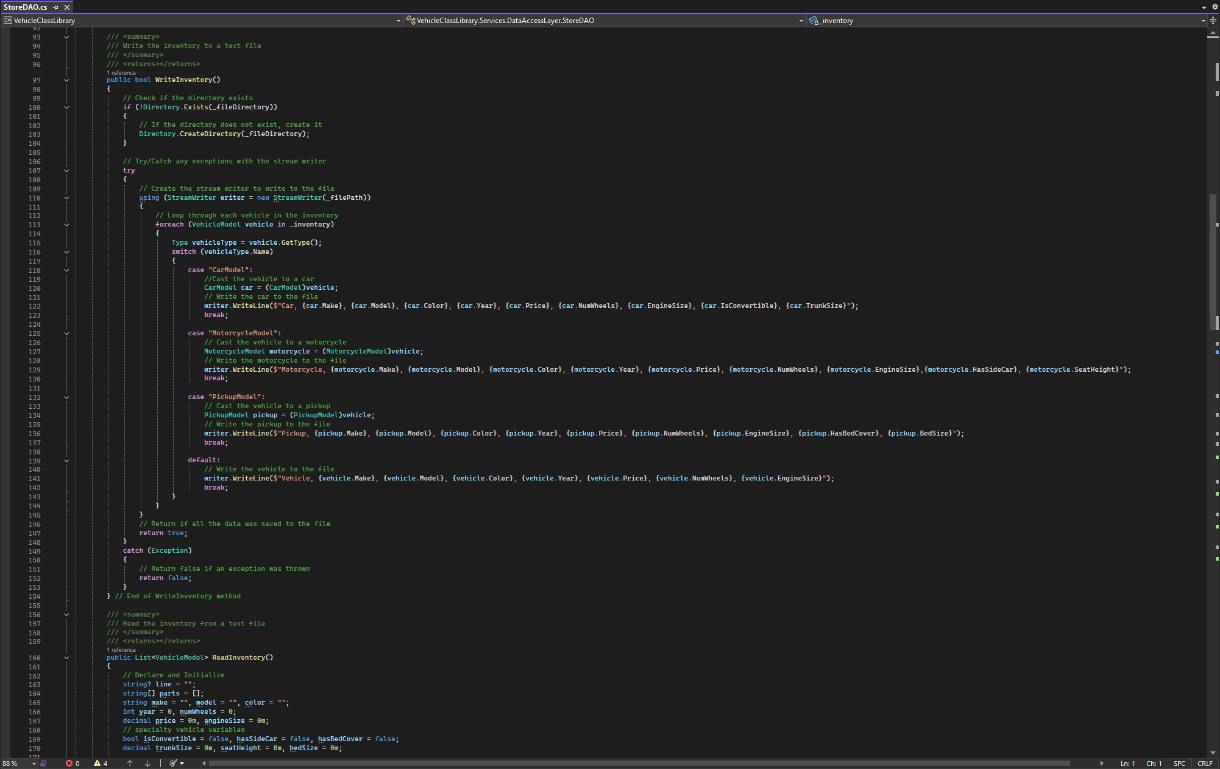


Figure 26: Challenge Changes

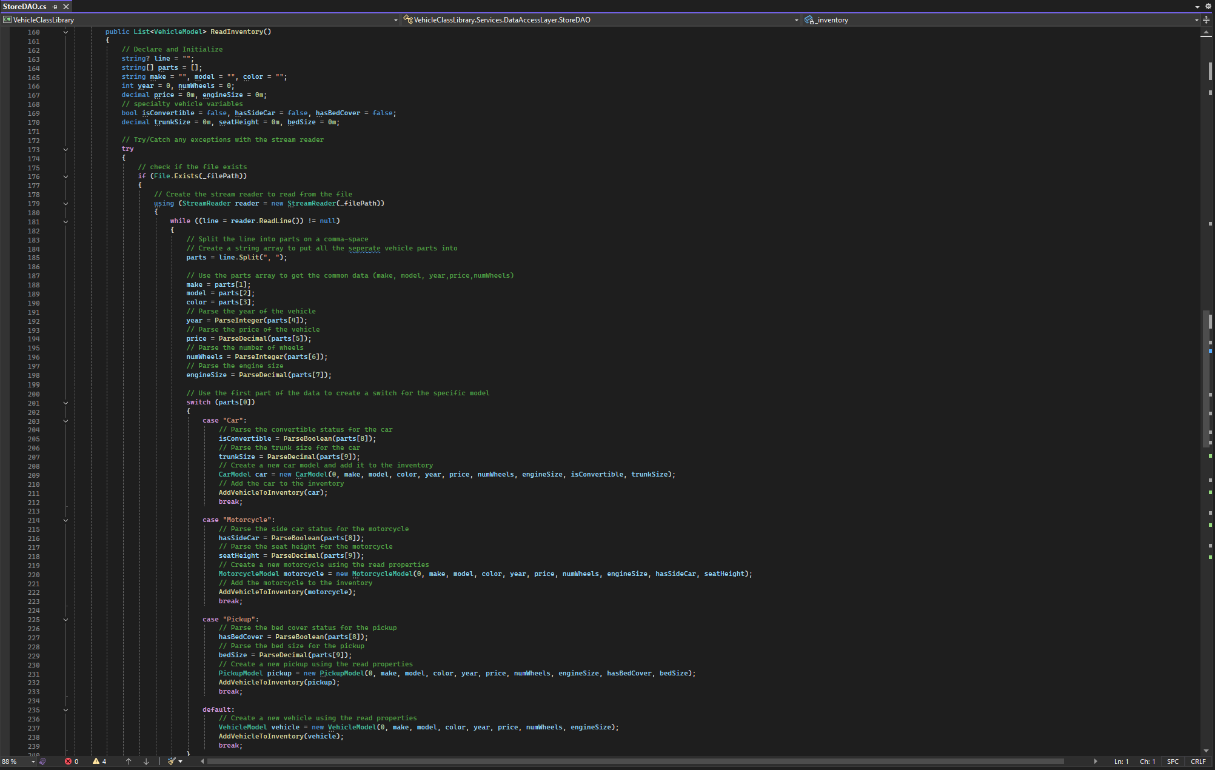


Figure 27 Challenge changes

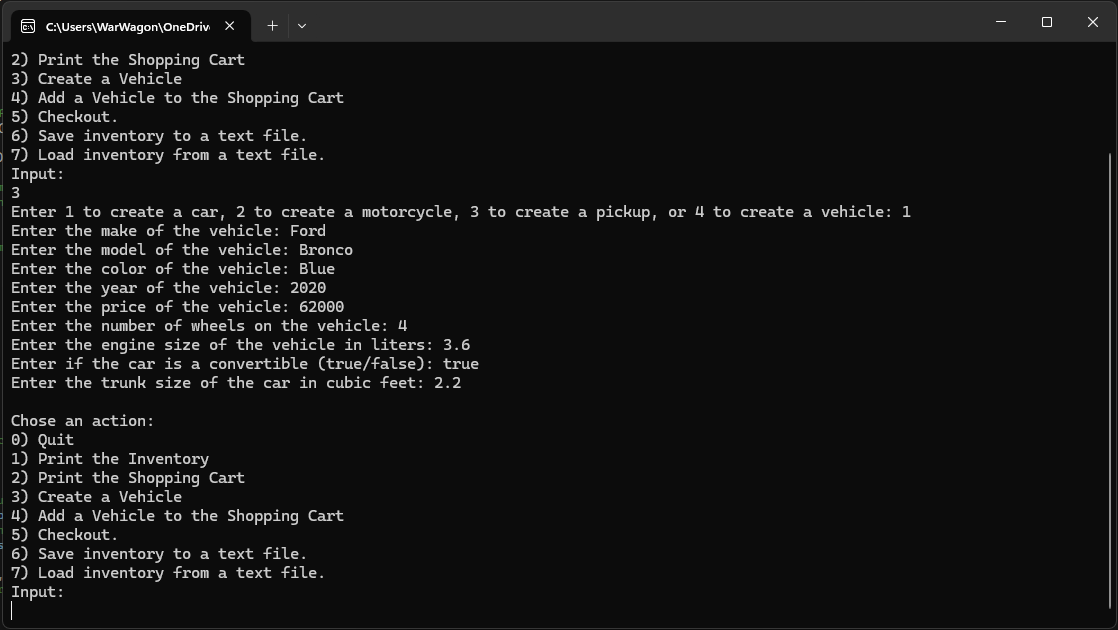


Figure 28: Changes running

Figures 26-28 are the changes to add the new properties and the application running with the new properties added to the create vehicle screens

**Part 2**

Screen Shots



Figure X: Screenshot of successful output

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Figure X: Screenshot of Error Handling

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**Part 3**

Screen Shots



Figure X: Screenshot of successful output

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Figure X: Screenshot of Error Handling

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