**Project 2 Documentation**

The purpose of this program is to allow a user to rent a car specifically from a certain agency. It would allow them to choose what agency, what car they would like to rent from the agency, how much it would cost per day and how long they would like to rent it.

The main design of this program was the usage of pointers in almost every function which manipulated arrays of any sort, this was also probably the biggest problem that I had for working on this project were these pointers. Many instances when working on the program where I felt bracket notation would be so much more logical to use, especially on functions like the estimate cost. Working with classes for the first time was also a really big struggle. I didn’t understand a lot of the functionality of classes for a good majority of the project, which was a major struggle when I started. I was unable to figure out where to start due to my lack of understanding of classes, and there are times where I don’t understand the functionality of them. Working with pointers is a challenge for me always, I always found bracket notation much simpler so it was a big change going from always using bracket notation to pointers, so working with only pointers led to quite the challenge for me.

If I had more time to work on the project, I would definitely implement the challenge of reading in the int array for this project, because I was not able to implement it as I felt it would completely ruin my code. I would’ve implemented a code where it was divide the zip code using modular (%) and take the remainder and plug it into a array backwards. I struggled so long with other functions, such as the most expensive car one, that I didn’t have time to implement my idea or even test it for that matter. I also found it pointless using an int array, storing an int value inside of an array, using multiple memory addresses for something that can be stored in a singular memory location, so I decided to scratch it out completely if I was not able to complete the project with a large amount of time left over.