Brian Han-Wei Chang

UID: 405-142-813

CS31 Project 2 Report

1. A brief description of notable obstacles you overcame. (In Project 1, for example, some people had the problem of figuring out how to work with more than one version of a program in Visual C++.)

It initially was hard for me to get the program to return error messages when wrong inputs were given because I was unaware of the “return -1” command. However, I had prior experience with if statements from LS30A/B so this project was manageable for me. I definitely had trouble getting access to the G31 Linux server but it helped me find out that I needed to include “#include <climits>“ in order for my INT\_MAX to run.

1. A list of the test data that could be used to thoroughly test your program, along with the reason for each test. You don't have to include the results of the tests, but you must note which test cases your program does not handle correctly. (This could happen if you didn't have time to write a complete solution, or if you ran out of time while still debugging a supposedly complete solution.) For Project 1, for example, such a list, had it been required, might have started off like this:

**For each of the following prompts, these are the only acceptable inputs for my program:**

Which vehicle would you like to order?

“**3”, “S”, “X”.**

Which kind would you like?

“**Long Range”, “Performance”.**

What exterior color would you like?

**“White”, “Black”, “Blue”, “Grey”, “Red”.**

Which wheels would you like?

**Model 3 Teslas will only accept 18-inch and 19-inch wheel sizes.**

**Model S Teslas will only accept 19-inch and 21-inch wheel sizes.**

**Model X Teslas will only accept 20-inch and 22-inch wheel sizes.**

Want leather interior?

**“Yes”, “No”.**

Want Auto-Pilot?

**“Yes”, “No”.**

All inputs are case sensitive.

No spaces are permitted within inputs except for “Long Range” for prompt “Which kind would you like?”

No special characters will be accepted for inputs.

**Any incorrect inputs will bet met with the following error messages.**

If the user enters a vehicle value which is not "3" or "S" or "X":

Error - Incorrect model choice.

If the user enters a kind value which is not "Performance" or "Long Range":

Error - Incorrect kind choice.

If the user enters a color value which is not "White", "Black", "Blue", "Grey" or "Red":

Error - Incorrect color choice.

If the user enters a wheel value which is not 18 or 19 for a Model 3, 19 or 21 for a Model S, or 20 or 22 for a Model X:

Error - Incorrect wheel value.

If the user enters a leather value which is not "Yes" or "No":

Error - Incorrect leather choice.

If the user enters an autopilot value which is not "Yes" or "No":

Error - Incorrect autopilot choice.