**Proj3.cpp Documentation**

**Notes: Please compile proj4.cpp Agency.cpp Car.cpp Sensors.cpp Stringlib.cpp at the same time**

**Purpose:**

The purpose of this project was to be familiar with file I/O, classes, constructors, pointers, the “this”, and many other things. The goal was to read from a file then print the contents out on the screen for the user, print out the most expensive car, and more.

**Design:**

The design of the project was very difficult. I had tremendous problems understanding constructors and how they work and getting them to put the data into private sections of a class. I had to reach out to my friend and the internet. I first started by wanting to be able to read the contents of HighTechAgency.txt and storing them and be able to manipulate the contents to be displayed. I defined my functions at the top and then have my “main” function then I include all my functions at the bottom. This was to make everything easier to read. I also did not include the “using namespace std” because I read that it was bad practice, so I did not want to get in the habit of using it.

**Challenges:**

I had tremendous difficulty getting my project to work properly. Maybe because I waited until the night before to start the project which was a bad idea. I was crammed with exams, my job, school work, etc. I was completely dissatisfied with how it turned out in the end because of my lack of time.

**Changes:**

This project was very difficult, and I can understand why 2 weeks were given to work on it. I wish the university allowed us to take ONLY computer science related courses and NOT BS English and arts classes that take up our time from our true passion. Only thing I would change is remove the operators section of this project. They were annoying and I don’t know when I would ever use it. I also need to start my projects earlier.