**Assignment 1** (CSC341)

**Design Scenario:**

Suppose an automobile showroom needs a console application to allow visitors to select a model name to know more about the model (there is a text file to store vehicle information). The application also allows a visitor to express an intent for a vehicle purchase, and the information is saved into a text file. A run of the program may look like this:

> Query model info (q) or Enter a vehicle purchase intent (i) or Exit (e):   
*q*  
> Pick a model from the following list (by typing the index number):  
 1. Chevy-Malibu   
 2. Toyota-Camry

3. Ford-Fusion  
2  
> Here is the description of Toyota-Camry: ….  
> Query model info (q) or Enter a vehicle purchase intent (i) or Exit (e):  
*i*  
> Enter your contact info:   
*Mary, 262-234-3214*> Enter your purchase intent:   
*I intend to purchase a compact car, but I need some help …*   
> Query model info (q) or Enter a vehicle purchase intent (i) or Exit (e):  
*e*

**Requirements:**

1. Design requirements
2. Make sure you apply the basic design principles we discussed in your design:
   1. *Design responsibility-driven software elements.*
   2. Separate different concerns with appropriate design elements.
   3. *Modularity makes a program more readable and maintainable*.
3. Write cohesive methods, meaning that a method should generally do only one thing (even though that thing may be complex).
4. Naming variables, classes, methods appropriately.
5. Strive for simplicity when you can.
6. Each class or interface should be contained in a separate file.

(*You can easily find more examples online about reading from and writing into a file if needed*.)

1. Other
2. Briefly describe your thought process that led to the finished assignment.
3. Attach a screen capture that shows the dialog of program execution.
4. Any questions you might have?