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Programming Foundations I

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**Problem Statement:**

The goal of this programming assignment was to practice creating functions to be called in main(). The program told the user that Spring Break was quickly approaching and asked the user to choose a vehicle and destination. The program then output the distance to the chosen destination and how long it would take the user to get there in the chosen vehicle. Error handling was used to make sure the user input a character corresponding to an available vehicle or destination choice.

**Design:**

The details of each function were already outlined in the comments preceding it, so there weren’t many design decisions to be made.

**Implementation:**

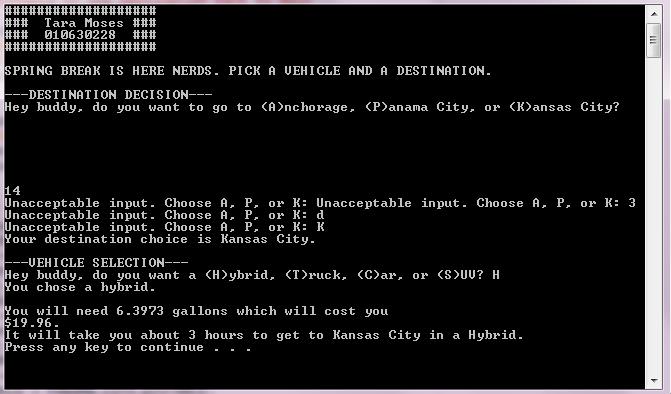
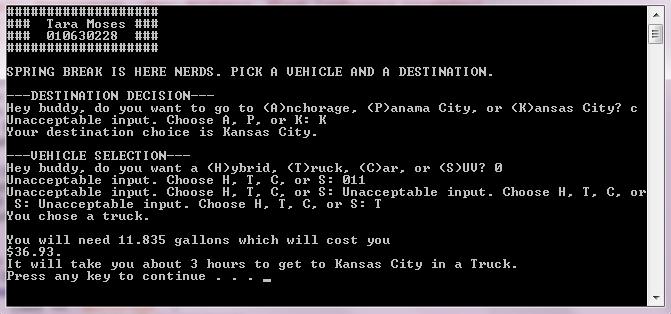
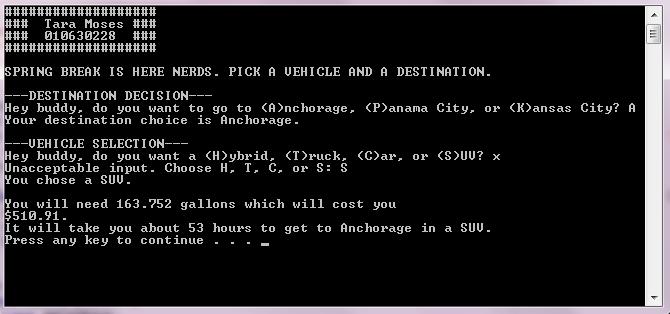
The program functions were written from top to bottom. The sample code used was hw4b.cpp on the PF1 website. Each function was defined with the parameters and return type given in the comments.

**Testing:**

The program wasn’t tested until every function was written (oops). Fortunately, there weren’t any huge errors in the functions, so the program compiled just fine instead of throwing out a thousand errors. While testing, the normal inputs consisted of the available vehicle/destination characters in upper- and lowercase. Special inputs included integers in place of letters.

**Conclusions:**

Overall, the program worked fine. Because most of the program was written for me, I wouldn’t have had much room to change anything if I ever had to write this program again. The program took about an hour to complete.

**Tests:**