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CS 210 Project 3

This program maintains a map named itemFrequency which stores the frequency at which an item appears in a list. The function processInputFile allows us to read the input file that has the list of items for us. Everything in this list is what fills in the itemFrequency map. This will also read if any changes or modifications were made to the text file.

The program begins with a menu-driven interface that displays a menu for the user to run the function. The user will have 4 options to pick with for right now. The user can look up the item frequency of one item, print the item frequency list, print the item frequency histogram, and then finally exit the program. For the first menu option, the user’s input will be how the program accesses the itemFrequency map.

The item frequency list gets printed by iterating over the map. The histogram is the same way, however, also printing asterisks based on the frequency of the item on the list. Then finally when exiting the program, all the data is backed up into the frequency.dat file using the function saveDataToFile function. This also writes the new contents of the itemFrequency map to the file.

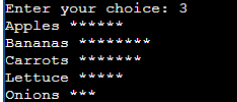
**Screenshot of the menu:**

**A screen shot of a computer program

Description automatically generated**

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