Danny Hernandez

Amine Ouaddi

Python Final:

The goal for this program is to track finances for both businesses and personal use, primarily this type of program would be more beneficial to businesses since it makes a spreadsheet of data points which could be used to do data analysis. While the program does support personal use, it should primarily be used every once and a while since doing one of the CSV’s everyday could overwhelm someone as realistically their CSV files would have a couple of transactions per CSV. The target audience should be businesses that track a lot of expenses or individuals that want to limit their spendings. This program should have a user-friendly GUI where users can choose between various options on what they wish to do next. For example, if the user wishes to do their expenses first, they can do that, or if the user only wants to see expenses, they are able to input expenses they are able to use the program to see that. The concept behind our program was to deliver an interactive experience while also keeping track of finances, due to the way our program is coded this allows the user to take control of the process. Our program should function as a series of decisions which the user takes control of to manipulate the program to whatever they see fit. The program should allow users to export the values that the users input to a csv file. The program should also allow users to quit if needed without exporting values to the file, as a redundant feature in case the person runs the program accidentally. One strength of this program is that it is fairly user friendly, and it can export value to a file that is called expenses.csv. One weakness is that the program has no way to go back to the main menu once you select one of the options, I also feel that the code could be condensed more but I am unsure where I would be able to condense it. I think a way to improve the project is to add a way where we could integrate a way to show in the CSV whether they are going to achieve their budget or go over. Another improvement is the ability to see live updates for the budget as you add expenses, this would make it easier for the user to gauge how close or far they are from their goal as they are going through the process instead of waiting to open the file to see their final total.

Pseudocode

Import pandas library

Class initialization with constructor

Set a few methods to set budget, income, expense, savings.

Summary generation function to generate a few printed messages that include Income, expenses, the category of expenses and savings goals.

Summary saving function to write the summary into a text file and print a message to show it being saved.

Subclass of financeTracker - AdvancedFinanceTracker initialized

Few functions to log expenses into categories and exporting them into txt files.

main loop to print a menu for the user where they would select from 7 options

1. Income setting
2. adding expenses
3. setting saving goals
4. generating a summary
5. saving a summary
6. exporting the expenses to a CSV file
7. Exit

The user is given a choice to choose an option we use try to catch any errors and loop back

depending on the option selected a function from the class or subclass is used to track and help the user set their finances.