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# Class: Lab Section 502

# Pseudo Code V1: Semester Project

Main

* Make txt files containing usernames and password for Administrators and Customers
  + Make separate files
* Ask for username and password If correct proceed to correct loop
  + If User inputs correct Admin password take them to the Admin Menu loop
  + If User inputs correct Customer username and password take them to Customer Menu Loop**\*Exeption1 & 2**

Administrator Menu loop

Implement each of the following

1. Create Customer Account
   1. Get the customer file as a 2D array edit and overwrite to Customer txt file
2. Change Password **\*Exeption4**
   1. Get Admin txt file as an array and change the second index to the desired password
3. View Customer Info
   1. Get the customer txt file as 2D array and print with a for loop
4. Change Customer info
   1. Ask for the customer that the admin wants to change if it exist it will ask him if he wants to add a different account or edit the existing account
5. Delete Customer Account
   1. Will ask for full name and Zip Code of account that will be deleted
   2. Then the full account will be shown
   3. Ask user if they are sure that the account is the correct one
6. Show top 5 accounts (according to balance)
   1. Bubble sort according to balance..
   2. Print the first 5 Customers
7. Show customer accounts alphabetically
   1. Bubble sort according to Last Name Alphabetically
8. Exit
   1. Use a “Goto” to go to the end of the program to a message before exiting ending program

Customer Menu loop

1. Change Password
   1. Get the 2D array and edit the password **Exeption4**
   2. Update the 2D array to the txt file
2. View Customer information
   1. View all the information of the customer currently logged in by printing the array of the current user not printing Customer ID, Password, nor Balance.
   2. Format the printing by using tabs and headers
3. View balance
   1. Print only the balance from the customers Array
4. Deposit
   1. Get the value from the customer array
   2. Add the amount wanted to add
5. Transfer Money
   1. Get the both Customers Balance Array **\*Exception1**
   2. Add/Subtract the money to the Arrays  **\*Exception3**
6. Withdraw
   1. Get the value form the customer array
   2. Subtract the amount wanted **\*Exeption3**
7. Exit
   1. Use a “Goto” to go to the end of the program to a message before exiting ending program

Exceptions

Exeption1- Make sure that the account that is trying to be accessed exist

Exeption2- Make sure that the password is correct

Exeption3- Make sure that there is enough money in the account to subtract the amount wanted.

Exeption4- Make sure that the changed password is wanted by making them retype it.