

File Handling Programming Task #2

1. Write a program that will simulate the opening of account in a bank. You are to create first a structure with 4 members – (1) an array of characters with 5 elements for the ACCOUNT NUMBER, (2) an array of characters with 30 elements for the ACCOUNT NAME, (3) an array of characters with 4 elements for the PIN, and (4) floating value for the initial BALANCE (Initial Deposit).

The program will allow the user (Teller) to input the depositor's **unique record** for the structure, and will store it to a text file named "Accounts.txt". Unique record means that the program should check if the inputted Account Number already exists. The program should not allow the user to input the same account number.

Sample Run:

```
Enter Account Number: 14344
Enter Account Name: Rachel A. Nayre
Enter PIN: 9546
Enter Initial Balance: 50000

Create another account [Y/N]: Y

Enter Account Number: 14344
"Account Already Exist! " Please try again...

Enter Account Number: 14355
Enter Account Name: Marlon B. Nayre
Enter PIN: 9546
Enter Initial Balance: 50000

Create another account [Y/N]: N
"End of Program"
```

Note: After the file "Accounts.txt" has been created, modify the program to append more depositor's records in the file.

2. Modify #1 in which the program will simulate the ATM.

The program will ask the depositor to input an ACCOUNT NUMBER, the program will then searches the account number from the "Accounts.txt" file, if the account number exists, then the program will then ask for the depositor's PIN; otherwise, the program will inform the user that the account does not exist. Note: The user will only allowed to input up to 3 incorrect account number, otherwise, the program will exit automatically.

The screen should look like this:

Enter Account Number: 14345
"Sorry the Account doesn't exist!"

Enter Account Number: 14344
Enter PIN: 9546

After the depositor's PIN has been inputted, the program will verify if the PIN inputted by the depositor is correct; otherwise, the program will **exit automatically**.

If the depositor's PIN was verified correctly, the screen will look like the following:

Welcome to PUP On-Line Banking Systems

1. Balance Inquiry
2. Deposit
3. Withdraw
4. Cancel

Press the desired transaction: 1

* If (1) was chosen, the latest balance from the file will be displayed:

Output:

Your Balance is P50000

Note: Display again the option and input the desired transaction.

* If (2) was chosen, the program will ask the depositor how much he is going to deposit:

Output:

Enter Amount: 50000

Note: The amount entered by the depositor will be added to his balance in the file.

Display again the option and input the desired transaction.

* If (3) was chosen, the program will ask the depositor how much he is going to withdraw:

Output:

Enter Amount: 50000

Note: The amount entered by the depositor will be subtracted from his balance in the file. Display again the option and input the desired transaction.

* If (4) was chosen, the program will terminate.

***Note:** Please include try... except statement