A Brief Preview of the Program And The Functions Used

The United Bank makes certain computerized facilities in their bank to

implement customer records and their daily daily transaction records.

The bank keeps certain information as follow:

INITIAL.dat:

acc\_no : Account number

name : Name of the Accountee

address : Address of the accountee

balance : Initial balance of the account

When the any customer will be create an account, the bank will

keep the above fields in their INITIAL.dat file as master account holder.

BANKING.dat:

acc\_no : Account number

type : Transaction type by Cash/Cheque

dd,mm,yy : Date of transaction

tran : Transaction for Deposit or Withdraw

interest : Interest rate

amout : Transaction amount

balance : Current balance after transaction

While inputing the data record the following validation will check:

- the account numbers will generate automatically

- the name, address should not blank

- transaction date will be the system date/current date

- initial deposit for any account not less that Rs. 500/-

- Daily transaction will be entered either the word Cash/Cheque

and 'D' for deposit and 'W' for withdraw

Write a menu driven program for making a daily transaction process for the

displaying folloing menu options.

1. Open New Account

2. List of Accounts

3. See Individual Account

4. Daily Transaction

5. Monthly Report

6. Edit Account

In the edit account menu the following processing will occur:

1. Modify Account

2. Close Account

0. Quit

The following will be the report format as

Report-1:

Accounts List in Bank

===================== Date:10/09/2017

=======================================================================

Accno# Name Address Balance

=======================================================================

1 Ms. Jajit Kaur 12, E-Block, Rohini 5600

2 Mr. Amitabh 234, Venus Appts. Rohini 12000

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Total Balance in Bank is: ------

Report-2:

Account No. 1 Ms. Jasjit Kaur Date:11/09/2017

12, E-Block, Rohini

Global Report of Account

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Date Particular Deposit Withdraw Balance

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1-10-1998 INITIAL 2000 2000

2-10-1998 CASH 3000 5000

8-10-1998 CHEQUE 4000 9000

9-10-1998 CASH 3400 5600

========================================================================

Total->: 9000 3400 5600

Report-3:

Account No. 1 Ms. Jasjit Kaur Date:11/09/2017

12, E-Block, Rohini

Statement Month: 12/09/2017

========================================================================

Date Particular Deposit Withdraw Balance

========================================================================

1-10-1998 INITIAL 2000 2000

2-10-1998 CASH 3000 5000

8-10-1998 CHEQUE 4000 9000

9-10-1998 CASH 3400 5600

========================================================================

Total-> 9000 3400 5600

This project is developed using C++ class concepts and having number of different

user defined function (UDFs) as follows:

line\_hor(.....)

This function passes four parameters including three integer and one character to

draw different lines to design the screen beautiful. The character parameter draw the

ASCII character line-by-line on screen. So, for horizontal line draw this function is usefull.

line\_ver(.....)

The DRAW\_VER(.....) function is helpful for drawing vertical lines on screen to design

either menu or program forms for data entry, modify, display, delete etc..

box(.....)

This function creates different size of boxes on the screen according to the respective

parameters. Out of all the parameters they draw boxes till the limit you want.

main\_menu(.....)

This is the main screening menu which will display your 6 different prompts and having different activities.

Each prompt is connected with different functions to perform the respective purposes. Out of all the options

the last one produces another sub-menu for modifying and deleting existing account informations.

While handling the main menu you can press any selective number to perform the operation or press 0 (Zero) to exit from

the main menu. But it is also helpful in almost all menus that, you can press 0 (zero) to exit from the respective menu.

edit\_menu(.....)

This is one of the sub function which is connected from the main\_menu() function to perform the modification and deletion operation

on banking account data from INITIAL.dat and BANKING.dat data file.

All the the ways the menus are perform the operation according to the account number (accno) except

the "Open New Account" of main\_menu() function because, the "Open New Account" form automatically creates

the account number after a brief search to the existing account numbers.

Basically, the numbers are generating automatically, like your 1, 2, 3 ... respectively.

add\_to\_file(...)

The function add\_to\_file is used to append new account details into the INITIAL.dat file. This function receives all the fields as paramenter way

from the new\_account() function and adds in the data file.

display\_list()

This function is used to display all the account data in the screen. Which displays the accountno#, name, address and

their respective balance amount in bank. Also show the total bank balance in the screen. All the records are extracted from

INITIAL.dat data file.

delete\_account()

This function is used to delete the account details from INITIAL.dat data file. This is a copy method which

transfers all the records except deleted accno#. And on the same way the records are reversed from the TEMP.dat file

to the original data file INITIAL.dat.

update\_balance()

When there is a fresh transaction happens on an existing account either deposit (D) or withdraw (W), then the respective balance has to updated

in the INITIAL.dat data file. While the transactions complete, the balance amount is overwritten in the

data file. This technique occurs by locating the position in the data file only.

modify()

When there is any modification occurs to the accounts name and address or to the balance amount, the simultaneously it becomes modified in the

INITIAL.dat data file through the modify\_account() function. This process highly depends on the key field account number.

last\_accno()

When a new record has to append into the data file, it has to create an automatic accno#. This process happens when we know the last account number. To

know the last account number by using the last\_accno() function. After finding the last account no. it returns the last account value into the new\_account() function

for generating next account number.

found\_account()

To do any operation: either for modification, deletion, report(s) or updation, every time the found\_account() function first checks the account which is entered by the

user is their in the INITIAL.dat data file or not. If it is their then a true value is returned else a false value is returned. While depending the value further process can

occurs.

\*return\_name()

When any reports are occur, on top of the report the account name is displayed. This function returns the name of the account holder and displays in appropriate report.

\*return\_address()

When any reports are occur, on top of the report the account address is displayed. This function returns the address of the account holder and displays in appropriate report.

give\_balance()

While daily transaction is occurs, the last balance is always required to update the INITIAL.dat data file. So, to know the last balance at the time of

daily transaction the give\_balance function returns the value to the transaction() function.

recordno()

Either for new\_account, update account, or modify account, or modify balance the recordno() function finds the

record position of existing account no. in the data files, where the transacted record can over written.

display()

The function is used to display the account details from either INITIAL.dat or BANKING.dat data file. While the modify() function actives, the accno parameter searches this

account details from the respective file to display on the screen before modify.

modify\_account()

This function is used to modify the existing accounts name and address at the existing location. To modify the account it first searches the accounts location and over written at the same location

using seekg() function.

new\_account()

This function is used to create a new account of a customer after entering all the details of the same. In this screen the automatic account number is created and a propr validations are their into name, address, and initial deposit.

After entering all the informations related to the customer, the records are appended in the INITIAL.dat and BANKING.dat data file by useing a function add\_to\_file of both class initial and account.

close\_account()

On the same way like delete\_account() function, the close\_account() function also closes all the transaction record in BANKING.dat data file.

After closing the account there is no transaction records are in the data files.

display\_account()

This function is used to display all the transaction includeing the initial deposit in the screen. This is a global report to display

all the transaction records in the screen. It shows all the deposits and withdraw column and date wise balance also.

transaction()

The transaction() function provides a screen for making daily transaction. While transaction it show the balance amount, and then eiter a transaction for deposit(D) or withdraw(W) on either CASH or CHEQUE.

Then the transacted record is updated in the INITIAL.dat and BANKING.dat data file. Also the same funcitons used two important function update\_balance() and add\_to\_file to update balance in INITIAL.dat data file and

the transacted record in BANKING.dat data file.

clear()

The function is used to clear the screen from a specified row and column position.

month\_report()

Like any other banking transaction, when a customer want his monthly report this function helps to generate the report on the screen.

When you enter a date an account number, it searches all the transaction of the previous month of the enter date and extracts a previous balance (B/F...) amount

first on the screen and then the entered months all the transaction on the screen. Finally shows the current balance amount also.

add\_to\_file()

This function is used to append new record into the BANKING.dat data file. While the function actives, it passed all the fields as parameter into the function and

appends as a fresh record into the file.

delete\_account()

This function is used to delete the account from the BANKING.dat data file. This is a copy method to delete the account from file.

no\_of\_days()

This function is used to find total number of years, months and days between two days.

box\_for\_display()

This function is used to display the heading of the report as:

Date Particular Deposit Withdraw Balance











