Part2.cpp File Reference

File contains implementaion of the functions of a Bank and its accounts. More...

```
#include <iostream>
#include <fstream>
#include <string>
#include <iomanip>
```

Classes

struct	**node**

Functions

int	**HashFun** (int accNo) HashFun method. More...
void	**insert** (**node** *h[], int x, string y, float z) Insert method. More...
void	**Display** (**node** *h[]) Display method. More...
float const	**deposit** (**node** *h[], float depAmt, int num) Deposit method. More...
float const	**withdraw** (**node** *h[], float withAmt, int num) Withdraw method. More...
string	**getName** (**node** *h[], int num) getName method More...
float	**getBalance** (**node** *h[], int num) getBalance method More...
bool	**search** (**node** *h[], int x) Search method. More...
int	**main** () main method More...

Detailed Description

File contains implementaion of the functions of a Bank and its accounts.

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Function Documentation

◆ deposit()

```
float const deposit ( node *  h[],
                      float   depAmt,
                      int     num
                    )
```

Deposit method.

Parameters

***h[],depAmt,num**

Returns

The amount of balance after deposit.

This function serves the purpose to deposit user inputed balance to a specific account, adding to the current balance that account holds.

◆ Display()

```
void Display ( node *  h[] )
```

Display method.

Parameters

***h[]**

This function will display the information stored in the Linked List.

◆ getBalance()

```
float getBalance ( node *  h[],
                   int     num
                 )
```

getBalance method

Parameters

***h[],num**

This function serves the purpose of finding the current balance an account holds based on the account number.

◆ getName()

```
string getName ( node *  h[],
                 int     num
               )
```

getName method

Parameters

***h[],num**

This function serves the purpose of finding the name of a specific account based on the account number.

◆ HashFun()

```
int HashFun ( int  accNo )
```

HashFun method.

Function prototypes/declarations.

Parameters

accNo

Returns

The number gained when taking the modulus of the account number using the number 5.

The method implements the modulus operator on the account number using the number 5.

◆ insert()

```
void insert ( node *  h[],
              int     x,
              string  y,
              float   z
            )
```

Insert method.

Parameters

***h[],x,y,z**

This function implements using pointers. Based on the data being read from the file, store them in the Linked List using pointers.

◆ main()

```
int main ( )
```

main method

Execution starts here for the Bank Accounts executable.

◆ search()

```
bool search ( node *  h[],
              int     x
            )
```

Search method.

Parameters

***h[],x**

Returns

true or false to execute a search.

This function serves the purpose of error checking if an account exists based on the account number.

◆ withdraw()

```
float const withdraw ( node *  h[],
                       float   withAmt,
                       int     num
                     )
```

Withdraw method.

Parameters

***h[],withAmt,num**

Returns

balance after withdrawal from account.

This function serves the purpose to withdraw user inputed balance from a specific account, subtracting from the current balance that account holds.

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