

```
//Bank Account Homework assignment -- Mario Valdez -- 9/17/20
```

```
#include<iostream>
#include<iomanip>
#include<vector>
#include<string>
#include <cmath>
#include <algorithm>
#include<string.h>
#include<stdlib.h>
using namespace std;
```

```
class Bank
{
private:
    int acno;
    char aname[15];
    float bal;
    static int cnt;
    static float total_funds;
public:
```

```
    void create_account();
    void delete_account();
    void deposit();
    void withdraw();
```

```
};
int Bank::cnt = 2000;
float Bank::total_funds;
void Bank::create_account() //creating the bank account for a friend
// acno = account number
{
    acno = ++cnt;
    cout << "\n Enter account holder name :";
    cin >> aname;
    cout << "\n Enter initial balance";
    cin >> bal;
    total_funds = total_funds + bal;
    cout << "\n An account wascreated";
    cout << "\n your account # :" << acno;
}
```

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```
    cout << "\n your account # :" << acno;
}
void Bank::delete_account() //deleting the account of the friend
{
    total_funds = total_funds - bal;
    acno = 0;
    strcpy_s(aname, " ");
    bal = 0;
    cout << "\n account deleted !!!";
}
void Bank::deposit() //depositing amount to the required account
{
    int amt;
    cout << "\n Enter the amount to deposit:";
    cin >> amt;
    bal = bal + amt;
    total_funds = total_funds + amt;
    cout << "\n Amount deposited!";
    cout << "\n your new balance:" << bal;
}
void Bank::withdraw() //withdrwing amount from the required account
{
    int amt;
    cout << "\n enter the amount to withdraw:";
    cin >> amt;
    if (amt > bal)
        cout << "\n----insufficint funds!";
    else
    {
        bal = bal - amt;
        total_funds = total_funds - amt;
        cout << "\n Amount withdrawn successfully!";
        cout << "\n your new balance is" << bal;
    }
}

int main() //displaying all the details for simulating a bank
{
    Bank b[10];
    int n = 0, i = 0, j = 0, ano, op;
```

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```
Bank b[10];
int n = 0, i = 0, j = 0, ano, op;
while (1)
{
    //clrscr();
    cout << "\n-----";
    cout << "\n Bank of Mario and His Friend";
    cout << "\n-----";
    cout << "\n 1.create account";
    cout << "\n 2.delete account";
    cout << "\n 3.deposit";
    cout << "\n 4.withdraw";
    cout << "\n-----";
    cout << "\n\n enter the option:";
    cin >> op;
    switch (op)
    {
    case 1:
        b[n].create_account();
        n++;
        break;
    case 2:
    case 3:
    case 4:
    case 5:
    case 6:cout << "\nenter an account #:";
        cin >> ano;

        if (i < 0)
            cout << "\ninvalid acc no!";
        else
        {
            if (op == 2)
                b[i].delete_account();
            else if (op == 3)
                b[i].deposit();
            else if (op == 4)
                b[i].withdraw();
            else if (op == 5) {
```

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```
case 2:
case 3:
case 4:
case 5:
case 6:cout << "\nenter an account #:";
    cin >> ano;

    if (i < 0)
        cout << "\ninvalid acc no!";
    else
    {
        if (op == 2)
            b[i].delete_account();
        else if (op == 3)
            b[i].deposit();
        else if (op == 4)
            b[i].withdraw();
        else if (op == 5) {

            cin >> ano;

            if (j < 0)

case 8:cout << "\nthank you!";

        exit(0);
default:cout << "\ninvalid option!";
    }

}
return 0;
}
}
```

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```

-----
Bank of Mario and His Friend
-----
1.create account
2.delete account
3.deposit
4.withdraw
-----

enter the option: 1

Enter account holder name : Mario

Enter initial balance 300

An account wascreated
your account # :2001
-----
Bank of Mario and His Friend
-----
1.create account
2.delete account
3.deposit
4.withdraw
-----

enter the option:1

Enter account holder name :Friend

Enter initial balance1000

An account wascreated
your account # :2002
-----
Bank of Mario and His Friend
-----
1.create account
2.delete account
3.deposit
4.withdraw
-----

enter the option:3

```

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An account was created  
your account # :2001

-----  
Bank of Mario and His Friend  
-----

1.create account  
2.delete account  
3.deposit  
4.withdraw  
-----

enter the option:1

Enter account holder name :Friend

Enter initial balance1000

An account was created  
your account # :2002

-----  
Bank of Mario and His Friend  
-----

1.create account  
2.delete account  
3.deposit  
4.withdraw  
-----

enter the option:3

enter an account #:2002

Enter the amount to deposit:300

Amount deposited!  
your new balance:600

C:\Users\mario\Desktop\BankAccount\Debug\BankAccount.exe (process 8840) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .

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