```
/********************* Name:- Divesh Uttamchandani *******************/
/****** Class :- XII A
/****** Date :- 10 August 2014
/****** Q-11):- Bank File
#include<fstream.h>
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<ctype.h>
#include<process.h>
int inital acno=1000;
struct date
int dd;
int mm;
int yy;
class master
int acno;
char nm[20];
float bal;
public:
master()
acno=inital acno-1;
strcpy(nm,"null");
bal=0;
}
//.....//
~master()
{
cout<<"".
}
```

```
void enter(int tacno)
 cout<<"\nEnter Name\t\t";</pre>
                          gets(nm);
 cout<<"Enter Initial Balance\t";
                          cin>>bal;
 acno=tacno;
 cout << "Account no. assigned\t" << acno;
 }
//.....//
 void display()
 cout << "\nAccount No.\t" << acno;
 cout << "\nName\t\t" << nm;
 cout<<"\nCurrent Balance\t"<<bal;</pre>
                   .....//
 void displayt() //for tabular form in func. dispall()
 cout << acno << "\t" << nm << "\t\t" << bal;
 int withdraw(float w_amt)
 if(bal-w amt>=1000)
  bal-=w amt;
  cout << "\n\nWithdrawal Successful\nCurrent A/C status is\n";
  display();
  return 1;
 else
  cout<<"\nWithdrawal Could Not Be completed due to Insufficient Balance\n";
  display();
  return 0;
  }
//.....//
 int deposit(float d amt)
 bal+=d amt;
 cout<<"\nDeposit Sucessful\nCurrent A/C status is\n";
 display();
 return 1;
 }
 int retacno()
 return acno;
 }
```

```
class transaction
 int tacno;
 date tdate;
 char ttype;
 float tamt;
public:
 transaction()
 tacno=0;
 tdate.dd=1; tdate.mm=1; tdate.yy=2000;
 ttype='n';
 tamt=0.0;
 }
//.....//
 ~transaction()
 cout<<"":
 void create(int acno,date d,char type,float amt)
 tacno=acno;
 tdate=d;
 ttype=type;
 tamt=amt;
 }
//.....//
 void display()
 cout << "\n" << tdate. dd << "/" << tdate. mm << "/" << tdate. yy << "\t" << ttype << "\t" << td>"
   <<tamt;
 int retacno()
 return tacno;
 }
void newac();
void delac();
void withdraw();
void deposit();
void dispreq();
void dispall();
void dispregtrans(int tacno);
void disp acwise trans();
```

```
void main()
int choice;
do
clrscr();
 cout << "\nMain Menu\n"
   <<"\nl)\tNew Account"
  <<"\n2)\tDelete Account"
  <<"\n3)\tWithdraw Money"
  <<"\n4)\tDeposit Money"
  <<"\n5)\tDisplay Required"
  <<"\n6)\tDisplay All"
  <="\n7)\tDisplay Account-Wise Transaction Details"
  <<"\n8)\tExit"
  <="\n\nEnter Your Choice (1-8)\t"; cin>>choice;
switch(choice)
 case 1:
     newac();
     break;
 case 2:
     delac();
     break;
 case 3:
     withdraw();
     break;
 case 4:
     deposit();
     break;
 case 5:
     dispreq();
     break;
 case 6:
     dispall();
     break;
 case 7:
     disp acwise trans();
     break;
 case 8:
     exit(0);
     break;
 default:cout<<"Invalid Choice:";</pre>
cout<<"\n\nPress Y to Continue\n";</pre>
}while(toupper(getche())=='Y');
```

```
void newac()
cout<<"\n\nPress Any Key To Clear Screen";</pre>
getche();
clrscr();
cout << "\nWelcome To New Accout Creation\n";
int acno;
master m;
ifstream fin;
fin.open("master.dat",ios::binary);
if(!fin)
 acno=inital acno;
else
 fin.seekg(-(int)sizeof(m),ios::end);
 fin.read((char*)&m,sizeof(m));
 acno=m.retacno()+1;
fin.close();
//now m used to get last account no is of no use hence it is again used to
//enter ac details
m.enter(acno);
//opening master.dat in out (append) mode
ofstream fout;
fout.open("master.dat",ios::binary|ios::app);
if(!fout)
      cout<<"Error In Opening File /'Master/";</pre>
else
      fout.write((char*)&m,sizeof(m));
void delac()
cout<<"\n\nPress Any Key To Clear Screen";</pre>
getche();
clrscr();
master m;
int tacno;
ifstream fin;
ofstream tfout:
int flag=0;
cout << "Enter The Account No. That You Want to Delete"; cin>>tacno;
```

```
fin.open("master.dat",ios::binary);
tfout.open("temp.dat",ios::binary);
if(!fin||!tfout)
 cout<<"Error, The file(s) Couldn't be Opened";</pre>
else
  fin.seekg(0);
  while(fin.read((char*)&m,sizeof(m)))
   if(m.retacno()!=tacno)
   tfout.write((char*)&m,sizeof(m));
   else
   flag=1;
               //to check if rec was found
  if(flag==1)
       //closing master and temp
       fin.close();
       tfout.close();
       remove("master.dat");
       rename("temp.dat","master.dat");
       cout<<"\nGiven A/C deleted from \'master.dat\'";</pre>
       //deleting transactions
       cout<<"\nDeleting Transactions(if any)";</pre>
       cout<<"\nPress Any Key";</pre>
       getch();
       cout << "\n\n";
       fin.open("trans.dat",ios::binary);
       tfout.open("temp.dat",ios::binary);
       if(!fin||!tfout)
       cout<<"\nThe File Transactions or Temp Couldn't Be Opened";</pre>
       else
         {
         transaction t;
         fin.seekg(0);
         while(fin.read((char*)&t,sizeof(t)))
           if(t.retacno()!=tacno)
           tfout.write((char*)&t,sizeof(t));
         fin.close();
         tfout.close();
         remove("trans.dat");
         rename("temp.dat","trans.dat");
         cout<<"\n Transactions Deleted";</pre>
  else
```

```
cout << "\n A/C not found";
   fin.close();
   tfout.close();
   remove("temp.dat");
 }
void withdraw()
cout<<"\n\nPress Any Key To Clear Screen";</pre>
getche();
clrscr();
int tacno;
int flag found=0;
int flag success=0;
float tamt;
fstream finout;
master m;
finout.open("master.dat",ios::binary|ios::out|ios::ate|ios::in|ios::nocreate);
cout<<"\nEnter A/C no.\t"; cin>>tacno;
if(!finout)
    cout<<"error, file \'master.dat\' couldn't be opened";</pre>
else
    finout.seekg(0);
    while(finout.read((char*)&m,sizeof(m)))
              if(m.retacno()==tacno)
                flag_found=1;
                break;
    if(flag_found==1)
        cout<<"Enter Amount You Want to Withdraw"; cin>>tamt;
        flag success=m.withdraw(tamt);
        finout.seekg(-(int)sizeof(m),ios::cur);
        finout.write((char*)&m,sizeof(m));
    else
        cout<<"Account not found";</pre>
```

```
//writing the transaction in file trans.dat
    if(flag success==1)
               ofstream fout;
               fout.open("trans.dat",ios::binary|ios::app);
                cout<<"Error File \'transaction.dat\' could not be opened";</pre>
               else
                 {
                transaction t;
                date d:
                cout<<"\nEnter Date Of Transaction\n";</pre>
                cout<<"\nDate(dd)"; cin>>d.dd;
                cout<<"\nMonth(mm)"; cin>>d.mm;
                cout<<"\nYear(yy)"; cin>>d.yy;
                t.create(tacno,d,'w',tamt);
                fout.write((char*)&t,sizeof(t));
                fout.close();
                }
               }
void deposit()
cout<<"\n\nPress Any Key To Clear Screen";</pre>
getche();
clrscr();
int tacno;
int flag found=0;
int flag success=0;
float tamt;
fstream finout;
master m;
finout.open("master.dat",ios::binary|ios::out|ios::ate|ios::in|ios::nocreate);
cout << "\nEnter A/C no.\t"; cin>>tacno;
if(!finout)
    cout<<"error, file \'master.dat\' couldn't be opened";</pre>
```

finout.close();

```
else
    finout.seekg(0);
    while(finout.read((char*)&m,sizeof(m)))
               if(m.retacno()==tacno)
                flag found=1;
                break;
    if(flag found==1)
        cout<<"Enter Amount You Want to Deposit";</pre>
                                                            cin>>tamt;
        flag success=m.deposit(tamt);
        finout.seekg(-(int)sizeof(m),ios::cur);
        finout.write((char*)&m,sizeof(m));
    else
        cout<<"Account not found";</pre>
    finout.close();
    //writing the transaction in file trans.dat
    if(flag success==1)
               ofstream fout;
               fout.open("trans.dat",ios::binary|ios::app);
               if(!fout)
                cout<<"Error File \'transaction.dat\' could not be opened";</pre>
               else
                transaction t;
                date d;
                cout<<"\nEnter Date Of Transaction\n";</pre>
                cout << "\nDate(dd)"; cin >> d.dd;
                cout<<"\nMonth(mm)"; cin>>d.mm;
                cout<<"\nYear(yy)"; cin>>d.yy;
                t.create(tacno,d,'d',tamt);
                fout.write((char*)&t,sizeof(t));
                fout.close();
                }
}
```

```
void dispreq()
cout<<"\n\nPress Any Key To Clear Screen";</pre>
getche();
clrscr();
master m;
int tacno;
ifstream fin;
int flag=0;
cout << "Enter The Account No. That You Want to Display"; cin>>tacno;
fin.open("master.dat",ios::binary);
if(!fin)
 cout<<"Error, The file Couldn't be Opened";</pre>
else
  fin.seekg(0);
  while(fin.read((char*)&m,sizeof(m)))
   if(m.retacno()==tacno)
        m.display();
                      //to check if rec was found
        flag=1;
        cout<<"\n\nDo You Want To Display Transactions Also(Y/N)";
        if(toupper(getche())=='Y')
        dispreqtrans(tacno);
        break;
  if(flag==0)
    cout<<"Not found";</pre>
  fin.close();
void dispall()
cout << "\n\nPress Any Key To Clear Screen";
getche();
clrscr();
master m;
ifstream fin;
```

```
fin.open("master.dat",ios::binary);
if(!fin)
 cout<<"Error, The file Couldn't be Opened";</pre>
else
  {
  cout << "\nA/C \ No\tName\t\Bal\n\";
  fin.seekg(0);
  while(fin.read((char*)&m,sizeof(m)))
         m.displayt();
         cout<<"\n";
  fin.close();
                                                                                                      //
void dispreqtrans(int tacno)
transaction t;
ifstream fin;
int flag found=0;
fin.open("trans.dat",ios::binary);
if(!fin)
 cout<<"\nError, The file Couldn't be Opened";</pre>
else
  fin.seekg(0);
  while(fin.read((char*)&t,sizeof(t)))
    if(t.retacno()==tacno)
         if(flag found==0) //only for first time
         cout<<"\n\nacno\tdate\t\ttype\tamount\n";</pre>
         t.display();
         flag_found=1; //if rec was found
  if(flag found==0)
    cout<<"\nNo transactions found";</pre>
    fin.close();
    }
```

```
//
void disp_acwise_trans()
{
cout<<"\n\nPress Any Key To Clear Screen";
getche();
clrscr();

master m;
ifstream fin;

fin.open("master.dat",ios::binary);

if(!fin)
cout<<"Error, The file Couldn't be Opened";
else
{
fin.seekg(0);
while(fin.read((char*)&m,sizeof(m)))
{
cout<<"\n\nTransaction Details of A/C no.\t"<<m.retacno();
dispreqtrans(m.retacno());
}
fin.close();
}

///
```

OUTPUT

Main Menu 1) New Account 2) 3) 4) Delete Account Withdraw Money Deposit Money 5) Display Required 6) Display All Display Account-Wise Transaction Details 7) 8) Exit Enter Your Choice (1-8) 1 Press Any Key To Clear Screen

Welcome To New Acccout Creation

Enter Name Divesh

Enter Initial Balance 10000

Account no. assigned 1000

Press Y to Continue

Main Menu 1) New Account 2) Delete Account 3) Withdraw Money 4) Deposit Money 5) Display Required Display All 7) Display Account-Wise Transaction Details 8) Exit Enter Your Choice (1–8) 1 Press Any Key To Clear Screen

```
Welcome To New Acccout Creation

Enter Name Harsh
Enter Initial Balance 20000
Account no. assigned 1001

Press Y to Continue
```

```
Main Menu
1)
        New Account
2)
3)
        Delete Account
        Withdraw Money
4)
        Deposit Money
        Display Required
6)
        Display All
7)
        Display Account-Wise Transaction Details
8)
        Exit
Enter Your Choice (1–8) 1
Press Any Key To Clear Screen_
```

Welcome To New Acccout Creation

Enter Name ABCD

Enter Initial Balance 1000

Account no. assigned 1002

Press Y to Continue

```
Main Menu
1)
        New Account
2)
3)
        Delete Account
        Withdraw Money
4)
5)
        Deposit Money
        Display Required
6)
        Display All
7)
8)
        Display Account-Wise Transaction Details
        Exit
Enter Your Choice (1-8) 2
Press Any Key To Clear Screen_
```

```
Enter The Account No. That You Want to Delete 1002

Given A/C deleted from 'master.dat'

Deleting Transactions(if any)

Press Any Key

The File Transactions or Temp Couldn't Be Opened

Press Y to Continue
```

```
Main Menu
1)
        New Account
2)
3)
        Delete Account
        Withdraw Money
4)
        Deposit Money
5)
6)
        Display Required
        Display All
7)
        Display Account-Wise Transaction Details
8)
        Exit
Enter Your Choice (1–8) 3
Press Any Key To Clear Screen_
```

Enter A/C no. 1000 Enter Amount You Want to Withdraw 1000 Withdrawal Successful Current A/C status is Account No. 1000 Name Divesh Current Balance 9000 Enter Date Of Transaction Date(dd) 10 Month(mm) Year(yy) 2014 Press Y to Continue

rress i to continue

```
Main Menu
1)
        New Account
2)
        Delete Account
3)
        Withdraw Money
4)
5)
        Deposit Money
        Display Required
6)
        Display All
7)
        Display Account-Wise Transaction Details
8)
        Exit
Enter Your Choice (1-8) 3
Press Any Key To Clear Screen
```

Enter A/C no. 1000

Enter Amount You Want to Withdraw 8001

Withdrawal Could Not Be completed due to Insufficient Balance

Account No. 1000 Divesh Name Current Balance 9000

Press Y to Continue

Main Menu

- 1) New Account
- Delete Account
- 3) Withdraw Money
- Deposit Money
- 4) 5) Display Required
- 6) Display All
- Display Account-Wise Transaction Details
- 7) 8) Exit

Enter Your Choice (1-8) 3

Press Any Key To Clear Screen_

Enter A∕C no.

Enter Amount You Want to Withdraw 1000

Withdrawal Successful Current A/C status is

Account No. 1000 Divesh Name Current Balance 8000 Enter Date Of Transaction

Date(dd) 10

Month(mm) 8

Year (yy) 2014

Press Y to Continue

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account-Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 4

Press Any Key To Clear Screen_
```

Enter A/C no. Enter Amount '	1000 You Want to Deposit	2000			
Deposit Sucessful Current A/C status is					
Account No.					
Name Divesh Current Balance 10000					
Enter Date Of					
Date(dd)	10				
Month(mm)	8				
Year(yy)	2014				
Press Y to Continue					

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account-Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 4

Press Any Key To Clear Screen
```

```
Enter A∕C no.
               1001
Enter Amount You Want to Deposit
                                        1999
Deposit Sucessful
Current A/C status is
Account No.
                1001
Name
                Harsh
Current Balance 21999
Enter Date Of Transaction
Date(dd)
               11
Month(mm)
Year(yy)
               2014
Press Y to Continue
```

```
Main Menu
1)
        New Account
2)
3)
        Delete Account
        Withdraw Money
4)
        Deposit Money
        Display Required
5)
6)
        Display All
        Display Account-Wise Transaction Details
7)
8)
        Exit
Enter Your Choice (1-8) 5
Press Any Key To Clear Screen_
```

```
Account No.
                1000
                Divesh
Name
Current Balance 10000
Do You Want To Display Transactions Also(Y/N)Y
acno
       date
                                amount
                        type
1000
        10/8/2014
                                 1000
                        W
1000
        10/8/2014
                                 1000
                        W
        10/8/2014
                                 2000
1000
                        d
Press Y to Continue
```

Enter The Account No. That You Want to Display 1000

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account-Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 5

Press Any Key To Clear Screen_
```

Enter The Account No. That You Want to Display 1001
Account No. 1001
Name Harsh
Current Balance 21999
Do You Want To Display Transactions Also(Y/N)N
Press Y to Continue

Main Menu			
1)	New Account		
2)	Delete Account		
3)	Withdraw Money		
4) 5)	Deposit Money		
5)	Display Required		
6)	Display All		
7)	Display Account-Wise Transaction Details		
8)	Exit		
Enter Your Choice (1–8) 6			
Press Any Key To Clear Screen_			

A/C No	Name	Ba l
1000 1001		10000 21999
Press Y	to Continue	

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account—Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 7

Press Any Key To Clear Screen
```

Transa	ction Details of	1000			
acno	date	type	amount		
1000 1000	10/8/2014 10/8/2014	ω ω	1000 1000		
1000	10/8/2014	d	2000		
Transaction Details of A/C no.			1001		
acno	date	type	amount		
1001					
_	1 to Continue				

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account-Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 2

Press Any Key To Clear Screen
```

```
Enter The Account No. That You Want to Delete 1000
Given A/C deleted from 'master.dat'
Deleting Transactions(if any)
Press Any Key

Transactions Deleted

Press Y to Continue
```

```
Main Menu

1) New Account
2) Delete Account
3) Withdraw Money
4) Deposit Money
5) Display Required
6) Display All
7) Display Account-Wise Transaction Details
8) Exit

Enter Your Choice (1-8) 6

Press Any Key To Clear Screen
```

A/C No Name Bal

1001 Harsh 21999

Press Y to Continue

Main Menu 1) New Account 2) Delete Account 3) Withdraw Money 4) 5) Deposit Money Display Required 6) Display All 7) Display Account-Wise Transaction Details 8) Exit Enter Your Choice (1–8) 7 Press Any Key To Clear Screen_

```
Transaction Details of A/C no. 1001

acno date type amount

1001 11/8/2014 d 1999

Press Y to Continue

—
```