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//********************
          HEADER FILE USED IN PROJECT
//**********************
#include<iostream>
#include<fstream>
#include<cctype>
#include<iomanip>
using namespace std;
//**********************************
          CLASS USED IN PROJECT
//***********************************
class account
 int acno;
 char name[50];
 int deposit;
  char type;
public:
 void create_account(); //function to get data from user
 void show_account() const; //function to show data on screen
 void modify(); //function to add new data
 void dep(int); //function to accept amount and add to balance amount
  void draw(int); //function to accept amount and subtract from balance amount
  void report() const; //function to show data in tabular format
  int retacno() const; //function to return account number
  int retdeposit() const; //function to return balance amount
  char rettype() const; //function to return type of account
     //class ends here
void account::create_account()
 cout<<"\nEnter The account No.: ";
  cout<<"\n\nEnter The Name of The account Holder: ";
  cin.ignore();
  cin.getline(name,50);
  cout<<"\nEnter Type of The account (C/S) : ";
  cin>>type;
 type=toupper(type);
  cout<<"\nEnter The Initial amount(>=500 for Saving and >=1000 for current ): ";
  cin>>deposit;
  cout<<"\n\nAccount Created..";
void account::show_account() const
```

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cout<<"\nAccount No.: "<<acno;
  cout<<"\nAccount Holder Name : ";
  cout<<name;
  cout<<"\nType of Account : "<<type;
  cout<<"\nBalance amount : "<<deposit;
void account::modify()
  cout<<"\nAccount No.: "<<acno;
  cout<<"\nModify Account Holder Name : ";
  cin.ignore();
  cin.getline(name,50);
  cout<<"\nModify Type of Account: ";
  cin>>type;
  type=toupper(type);
  cout<<"\nModify Balance amount : ";
  cin>>deposit;
void account::dep(int x)
  deposit+=x;
void account::draw(int x)
  deposit-=x;
void account::report() const
  cout<<acno<<setw(10)<<" "<<name<<setw(10)<<"
"<<type<<setw(6)<<deposit<<endl;
int account::retacno() const
  return acno;
int account::retdeposit() const
  return deposit;
```

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char account::rettype() const
 return type;
//*********************
     function declaration
void write_account(); //function to write record in binary file
void display_sp(int); //function to display account details given by user
void modify_account(int); //function to modify record of file
void delete_account(int); //function to delete record of file
void display_all();
                 //function to display all account details
void deposit_withdraw(int, int); // function to desposit/withdraw amount for given
account
void intro(); //introductory screen function
//**********************
     THE MAIN FUNCTION OF PROGRAM
//*********************
int main()
  char ch:
 int num;
 intro();
  do
   system("cls");
   cout<<"\n\n\tMAIN MENU";
   cout<<"\n\n\t01. NEW ACCOUNT";
   cout<<"\n\n\t02. DEPOSIT AMOUNT";
   cout<<"\n\n\t03. WITHDRAW AMOUNT";
   cout<<"\n\n\t04. BALANCE ENQUIRY";
   cout<<"\n\n\t05. ALL ACCOUNT HOLDER LIST";
   cout<<"\n\n\t06. CLOSE AN ACCOUNT";
   cout<<"\n\n\t07. MODIFY AN ACCOUNT":
   cout<<"\n\n\t08. EXIT";
   cout<<"\n\n\tSelect Your Option (1-8) ";
   cin>>ch;
   system("cls");
   switch(ch)
   case '1':
     write_account();
     break;
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case '2':
     cout<<"\n\n\tEnter The account No.: "; cin>>num;
      deposit_withdraw(num, 1);
     break;
    case '3':
     cout<<"\n\n\tEnter The account No.: "; cin>>num;
     deposit_withdraw(num, 2);
     break;
    case '4':
     cout<<"\n\n\tEnter The account No.: "; cin>>num;
     display_sp(num);
     break:
    case '5':
     display_all();
     break;
    case '6':
     cout<<"\n\n\tEnter The account No.: "; cin>>num;
     delete_account(num);
     break:
    case '7':
     cout<<"\n\n\tEnter The account No.: ": cin>>num:
     modify_account(num);
     break;
    case '8':
     cout<<"\n\n\tThanks for using bank managemnt system";
     break;
    default :cout<<"\a";
   cin.ignore();
    cin.get();
 }while(ch!='8');
 return 0;
}
function to write in file
void write_account()
 account ac;
 ofstream outFile;
  outFile.open("account.dat",ios::binary|ios::app);
  ac.create_account();
  outFile.write(reinterpret_cast<char *> (&ac), sizeof(account));
  outFile.close();
```

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//********************
     function to read specific record from file
//************************************
void display_sp(int n)
 account ac;
 bool flag=false;
 ifstream inFile;
 inFile.open("account.dat",ios::binary);
 if(!inFile)
   cout<<"File could not be open !! Press any Key ... ";
 cout<<"\nBALANCE DETAILS\n";
   while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
   if(ac.retacno()==n)
     ac.show_account();
     flag=true;
 inFile.close();
 if(flag==false)
   cout<<"\n\nAccount number does not exist";
//*********************
     function to modify record of file
void modify_account(int n)
 bool found=false;
 account ac:
 fstream File;
 File.open("account.dat",ios::binary|ios::in|ios::out);
 if(!File)
   cout<<"File could not be open !! Press any Key ... ";
 while(!File.eof() && found==false)
```

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File.read(reinterpret_cast<char *> (&ac), sizeof(account));
    if(ac.retacno()==n)
      ac.show_account();
      cout<<"\n\nEnter The New Details of account"<<endl;
      ac.modify();
      int pos=(-1)*static_cast<int>(sizeof(account));
      File.seekp(pos,ios::cur);
      File.write(reinterpret_cast<char *> (&ac), sizeof(account));
      cout<<"\n\n\t Record Updated";
      found=true;
  File.close();
  if(found==false)
    cout<<"\n\n Record Not Found ";
}
//**********************************
     function to delete record of file
void delete_account(int n)
  account ac;
  ifstream inFile;
  ofstream outFile;
  inFile.open("account.dat",ios::binary);
  if(!inFile)
    cout<<"File could not be open !! Press any Key ... ";
    return;
  outFile.open("Temp.dat",ios::binary);
  inFile.seekg(0,ios::beg);
  while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
    if(ac.retacno()!=n)
      outFile.write(reinterpret_cast<char *> (&ac), sizeof(account));
  inFile.close();
  outFile.close();
  remove("account.dat");
  rename("Temp.dat","account.dat");
  cout<<"\n\n\tRecord Deleted ..";
```

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}
//*********************
    function to display all accounts deposit list
//**********************
void display_all()
 account ac;
 ifstream inFile;
 inFile.open("account.dat",ios::binary);
 if(!inFile)
   cout<<"File could not be open !! Press any Key ... ";
 cout<<"\n\n\t\tACCOUNT HOLDER LIST\n\n";
 cout<<"A/c no.
                        Type Balance\n";
              NAME
 while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
   ac.report();
 inFile.close();
//*********************
    function to deposit and withdraw amounts
//***********************
void deposit_withdraw(int n, int option)
 int amt;
 bool found=false;
 account ac;
 fstream File:
 File.open("account.dat", ios::binary|ios::in|ios::out);
 if(!File)
   cout<<"File could not be open !! Press any Key ... ";
   return;
 while(!File.eof() && found==false)
   File.read(reinterpret_cast<char *> (&ac), sizeof(account));
   if(ac.retacno()==n)
```

```
ac.show_account();
     if(option==1)
       cout<<"\n\n\tTO DEPOSITE AMOUNT ";
       cout<<"\n\nEnter The amount to be deposited";
       cin>>amt;
       ac.dep(amt);
     if(option==2)
       cout<<"\n\n\tTO WITHDRAW AMOUNT ";
       cout<<"\n\nEnter The amount to be withdraw";
       cin>>amt:
       int bal=ac.retdeposit()-amt;
       if((bal<500 && ac.rettype()=='S') || (bal<1000 && ac.rettype()=='C'))
         cout<<"Insufficience balance";
       else
         ac.draw(amt);
     int pos=(-1)*static_cast<int>(sizeof(ac));
     File.seekp(pos,ios::cur);
     File.write(reinterpret_cast<char *> (&ac), sizeof(account));
     cout<<"\n\n\t Record Updated";
     found=true;
    }
 File.close();
 if(found==false)
   cout<<"\n\n Record Not Found ";
}
//**********************
     INTRODUCTION FUNCTION
void intro()
 cout<<"\n\n\t BANK";
 cout<<"\n\n\tMANAGEMENT";
 cout<<"\n\n\t SYSTEM";
 cin.get();
//*********************************
        END OF PROJECT
//*********************
```