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#include <bits/stdc++.h>
#include<conio.h>

using namespace std;

class contact{
private:
    char fName[50], lName[50], address[50], email[50];
    long long phNo;

public:
    void createContact() {
        cout<<"Enter your first name: ";
        cin>>fName;
        cout<<"Enter your last name: ";
        cin>>lName;
        cout<<"Enter phone: ";
        cin>>phNo;

    }

    void showContact() {
        cout<<"Name: "<<fName<<" "<<lName<<endl;
        cout<<"Phone: "<<phNo<<endl;

    }

    void writeOnFile() {
        char ch;
        ofstream f1;
        f1.open("CMS.dat",ios::binary|ios::app);

        do {
            createContact();
            f1.write(reinterpret_cast<char*>(this),sizeof(*this));
            cout<<"Do you have next data?(y/n)";
            cin>>ch;
        }while(ch!='y');

        cout<<"Contact has been Sucessfully Created...";
        f1.close();

    }

    void readFromFile() {
        ifstream f2;
        f2.open("CMS.dat",ios::binary);

        cout<<"\n=====\\n";
        cout<<"LIST OF CONTACTS";
        cout<<"\n=====\\n";

        while(!f2.eof()) {
            if(f2.read(reinterpret_cast<char*>(this),sizeof(*this)))
            {
                showContact();
                cout<<"\n=====\\n";
            }
        }
    }

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    }
    f2.close();
}

void searchOnFile() {
    ifstream f3;
    long long phone;
    cout<<"Enter phone no.: ";
    cin>>phone;
    f3.open("CMS.dat",ios::binary);

    while(!f3.eof()) {
        if(f3.read(reinterpret_cast<char*>(this),
sizeof(*this))) {
            if (phone==phNo) {
                showContact();
                return;
            }
        }
    }
    cout<<"\n\n No record not found";
    f3.close();
}

void deleteFromFile() {
    long long num;
    int flag = 0;
    ofstream f4;
    ifstream f5;

    f5.open("CMS.dat",ios::binary);
    f4.open("temp.dat",ios::binary);

    cout<<"Enter phone no. to delete: ";
    cin>>num;

    while(!f5.eof()) {
        if(f5.read(reinterpret_cast<char*>(this),sizeof(*this)))
{
            if(phNo!=num) {

f4.write(reinterpret_cast<char*>(this),sizeof(*this));
            }
            else
                flag = 1;
        }
    }
    f5.close();
    f4.close();
    remove("CMS.dat");
    rename("temp.dat","CMS.dat");

    flag==1?
    cout<<endl<<endl<<"\tContact Deleted...":
    cout<<endl<<endl<<"\tContact Not Found...";
}

void editContact() {

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long long num;
fstream f6;

cout<<"Edit contact";
cout<<"\n===== \n\n";
cout<<"Enter the phone number to be edit: ";
cin>>num;

f6.open("CMS.dat",ios::binary|ios::out|ios::in);

while(!f6.eof()) {
    if(f6.read(reinterpret_cast<char*>(this),sizeof(*this)))
    {
        if (phNo==num) {
            cout<<"Enter new record\n";
            createContact();
            int pos=-1*sizeof(*this);
            f6.seekp(pos,ios::cur);

            f6.write(reinterpret_cast<char*>(this),sizeof(*this));
            cout<<endl<<endl<<"\t Contact Successfully Updated...";

            return;
        }
    }
    cout<<"\n\n No record not found";
    f6.close();
}

};

int main() {
    system("cls");
    system("Color 2F");

    cout<<"\n\n\n\n\n\n\n\n\n\n\n \t\t\t\t\t -----"
    -----";
    cout<<"\n\t\t\t\t\t\t\t\t -: WELCOME TO BANKING SYSTEM :-";
    cout<<"\n\t\t\t\t\t\t\t\t -----";
    cout<<"\n\n\n\n\n\n\n\n\n\n\n\n \t\t\t\t\t\t\t\t\t\t By,\n";
    cout<<"\t\t\t\t\t\t\t\t\t\t\t Subham Mondal\n";
    getch();

    while(1) {
        contact c1;
        int choice;

        system("cls");
        system("Color DF");

        cout<<"\n\t\t\t\t\t\t\t\t\t\t\t BANKING SYSTEM";
        cout<<"\n\n\t\t\t\t\t\t\t\t\t\t\t MAIN MENU";
        cout<<"\n\t\t\t\t\t\t\t\t\t\t\t ===== \n\n";
        cout<<"\t\t\t\t\t\t\t\t\t\t\t [1] Add a new Contact\n";
        cout<<"\t\t\t\t\t\t\t\t\t\t\t [2] List all Contacts\n";
        cout<<"\t\t\t\t\t\t\t\t\t\t\t [3] Search for contact\n";
        cout<<"\t\t\t\t\t\t\t\t\t\t\t [4] Delete a Contact\n";
        cout<<"\t\t\t\t\t\t\t\t\t\t\t [5] Edit a Contact\n";

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cout<<"\t\t\t\t\t[0] Exit";
    cout<<"\n\t\t\t\t\t=====\\n\\n";
cout<<"\t\t\t\t\tEnter your choice: ";
cin>>choice;

switch(choice) {
    case 1:
        system("cls");
        c1.writeOnFile();
        break;

    case 2:
        system("cls");
        c1.readFromFile();
        break;

    case 3:
        system("cls");
        c1.searchOnFile();
        break;

    case 4:
        system("cls");
        c1.deleteFromFile();
        break;

    case 5:
        system("cls");
        c1.editContact();
        break;

    case 0:
        system("cls");
        cout<<"\\n\\n\\n\t\t\tThank you for using Banking
System."<<endl<<endl;
        exit(0);
        break;

    default:
        continue;
}

int opt;
cout<<"\\n\\n...:Enter the Choice:\\n[1] Main Menu\t\t[0]
Exit\\n";
cin>>opt;

switch (opt) {
    case 0:
        system("cls");
        cout<<"\\n\\n\\n\t\t\tThank you for using BANKING
SYSTEM."<<endl<<endl;
        exit(0);
        break;

    default:
        continue;
}
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    }  
    return 0;  
}
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