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#include<iostream>
#include<iomanip>
#include<fstream>
#include<string>
using namespace std;

class telephone
{
    public:
        int number;
        string name;
        void getdata()
        {
            cout<<"Enter name: ";
            getline(cin,name);
            cout<<"Enter number: ";
            cin>>number;
        }
        void display()
        {
            cout<<"Name : "<<name<<"Number : "<<number<<endl;
        }
};

void search(int n, telephone t[])
{
    string s;
    cin.ignore();
    cout<<"Enter name to Search: ";
    getline(cin,s);

    ifstream fin;
    fin.open("Telephone Directory.txt");
    int i;
    for(i=0;i<n;i++)
    {
        fin>>t[i].name>>t[i].number;
        if(t[i].name==s)
        {
            cout<<"Name : "<<t[i].name<<"\t Number: "<<t[i].number<<endl;
            break;
        }
    }
    if(i==n)
        cout<<"Not present\n";
}

void update(int n,telephone t[])
{
    string s;
    cin.ignore();
    cout<<"Enter name to Update Details: ";
    getline(cin,s);

    ifstream fin;
    fin.open("Telephone Directory.txt");
    int i;
    for(i=0;i<n;i++)

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    {
        fin>>t[i].name>>t[i].number;
        if(t[i].name==s)
        {
            cout<<"Enter new number to update: ";
            cin>>t[i].number;
            break;
        }
    }
    if(i==n)
        cout<<"Not present\n";
    fin.close();

    ofstream fout;
    fout.open("Telephone Directory.txt");
    for(i=0;i<n;i++)
        fout<<setw(15)<<t[i].name<<setw(10)<<t[i].number<<endl;

    fout.close();
}

int main()
{
    int n;
    cout<<"Enter number of contacts in the Telephone Directory: ";
    cin>>n;

    telephone t[n];

    ofstream fout;
    fout.open("Telephone Directory.txt");
    for(int i=0;i<n;i++)
    {
        cin.ignore();
        t[i].getdata();
        fout<<setw(15)<<t[i].name<<setw(10)<<t[i].number<<endl;
    }
    fout.close();

    int ch;
    do
    {
        cout<<"\n1.Search\n2.Update number\n3.Exit\n";
        cin>>ch;
        switch(ch)
        {
            case 1:search(n,t);break;
            case 2:update(n,t);break;
            case 3:break;
            default:cout<<"Invalid input.\n";
        }
    }while(ch!=3);
    return 0;
}

```