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1)
#include "bits/stdc++.h"

using namespace std;

int main()
{
    ofstream f1("file1.txt");
    cout << "Enter 5 Elements\n";
    for (int i = 0; i < 5; i++)
    {
        int n;
        cin >> n;
        f1 << n;
    }
    f1.close();
    f1.open("file2.txt", ios::out);
    cout << "Enter 3 Elements\n";
    for (int i = 0; i < 3; i++)
    {
        int n;
        cin >> n;
        f1 << n;
    }
    f1.close();

    ifstream f("file1.txt");

    vector<int> v1;

    while (f.good())
    {
        int n;
        char c;
        f.get(c);
        n = (int)c - 48;
        v1.push_back(n);
    }
    v1.pop_back();

    f.close();

    f.open("file2.txt");

    while (f.good())
    {
        int n;
        char c;
        f.get(c);
        n = (int)c - 48;
        v1.push_back(n);
    }
    v1.pop_back();
    f.close();

    f1.open("file3.txt", ios::out);

    sort(v1.begin(), v1.end());

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        for (int i = 0; i < 8; i++)
        {
            f1 << v1[i];
        }

        cout << "Contents of file 3\n";
        for (int i = 0; i < v1.size(); i++)
        {
            cout << v1[i] << "\t";
        }
    }
}

```

o/p :

The screenshot shows a terminal window with the following content:

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Input:
1 2 7 4 5
1 2 8
Expected Output:
Enter 5 Elements
Enter 3 Elements
Contents of file 3
1      1      2      2      4      5      7      8

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2)
#include "bits/stdc++.h"

using namespace std;
class TeleDir
{
private:
    string name;
    int phone;

public:
    void getUser_name()
    {
        cout << "Enter User Name\n";
        cin >> name;
    }
    void getPhoneNumber()
    {
        cout << "Enter New Phone Number\n";
        cin >> phone;
    }

    int registerUser()
    {
        if (1)
        {
            ofstream f("teleDir_data/" + name +
".txt");
            f << phone;
            f.close();
            return 1;
        }
        else
            return 0;
    }

    int searchAndUpdate(string name_s)
    {
        ifstream f1("teleDir_data/" + name_s +
".txt", ios::in);

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        if (f1)
        {
            ofstream f("teleDir_data//" + name_s +
".txt");
            cout << "Enter New Phone Number\n";
            int n;
            cin >> n;
            f << n;
            f.close();
            f1.close();
            return 1;
        }
        else
            return 0;
    }
    TeleDir()
    {
    }
};
int main()
{
    TeleDir t;
    int c;
    do
    {
        cout << "1: Register \n2:Search and
Update\n0:EXIT\n";
        cin >> c;
        switch (c)
        {
            case 1:
            {
                t.getUserName();
                t.getPhoneNumber();
                if (t.registerUser())
                {
                    cout << "Successfully Registered
Phone Number\n";
                }
                else
                    cout << "Registration Phone Number
Unsuccessful\n";
            }
            break;
            case 2:
            {
                string s;
                cout << "Enter User Name\n";
                cin >> s;
                if (t.searchAndUpdate(s))
                {
                    cout << "Phone Number Edited
Successfully\n";
                }
                else
                    cout << "Name does not Exists in
dir\n";
            }
            default:
                break;
        }
    }
}

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    }
} while (c);
}

```

O/P :

```

PS C:\Users\smite\Desktop\CP\SE_LAB\oops\_LAB_> ./run
1: Register
2:Search and Update
0:EXIT
1
Enter User Name
abcdef
Enter New Phone Number
127382131
Successfully Registered Phone Number
1: Register
2:Search and Update
0:EXIT
2
Enter User Name
abcdef
Enter New Phone Number
1872183
Phone Number Edited Successfully
1: Register
2:Search and Update
0:EXIT
2
Enter User Name
noname
Name does not Exists in dir
1: Register
2:Search and Update
0:EXIT
0

```