

Lab Internal – File Structures.

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1CR18IS151

6TH SEMESTER – C SECTION.

Code:

```
#include <iostream>
#include <string.h>
#include <fstream>
#include <stdlib.h>

using namespace std;
fstream f1,f2,f3;

void createlists()
{
    int n,m;
    char name[20];
    f1.open("File 1.txt", ios::out);
    f2.open("File 2.txt", ios::out);
    if ((!f1) || (!f2) )
    {
        cout << "Unable to open the requested files!"
        exit(0);
    }

    cout << "Enter the umber of names in file 1: ";
    cin >> n;
    cout << "Enter the umber of names in file 2: ";
    cin >> m;
    int i;
    cout << "Enter the names in File 1: "<<endl;
    for (i=0;i<n;i++) {
        cin>> name;
        f1 << name;
        f1 << "\n";
    }
}
```

```

    cout << "Enter the names in file 2: " << endl;
    for(i = 0; i < m; i++)
    {
        cin >> name;
        f2 << name;
        f2 << "\n";
    }
    f1.close();
    f2.close();
}

void coseqmatch(){
    char list[50][20], list2[60][20];
    f1.open("File 1.txt", ios::in);
    f2.open("File 2.txt", ios::in);
    f3.open("File 3.txt", ios::out);
    if ((!f1) || (!f2) || (!f3)) {
        cout << "Unable to create files!";
        exit(0);
    }
    int n = 0, m = 0;
    cout << "Elements in List1 are: " << endl;
    while(!f1.eof())
    {
        f1.getline(list1[n], 20);
        cout << list1[n] << endl;
        n++;
    }

    cout << "Elements in List2 are: " << endl;
    while(!f2.eof())
    {
        f2.getline(list2[n], 20);
        cout << list2[n] << endl;
        m++;
    }

    int i, j, k;
    i = j = k = 0;
    cout << "Common Names in both the lists are:" << endl;
    while (i < n-1 || j < m - 1)
    {
        if (strcmp(list1[i], list2[j]) == 0)
        {
            f3 << list1[i] << "\n";
            i++;
            j++;
            k++;
        }
    }
}

```

```

    }
    else if(strcmp(list1[i],list2[j] < 0))
        i++;
    else
        j++;
    }
    if (k == 0)
        cout<<"There are no common elements :(" << endl;

}

int main()
{
    createlists();
    coseqmatch();
}

```

Output:

```

sooraj@Asus-F-15:~/FS lab/Program 7$ ./a.out
Enter the number of names in File 1: 3
Enter the number of names in File 2: 3
Enter the names in File1:
Sooraj
Singh
Akshay
Enter the names in File2:
Sooraj
Singh
Veena
Elements in list 1:

Sooraj
Singh
Akshay

Elements in list 2:

Sooraj
Singh
Veena

Common names:

File 3 has Sooraj
File 3 has Singh

```

```
sooraj@Asus-F-15:~/FS lab/Program 7$ ./a.out
Enter the number of names in File 1: 2
Enter the number of names in File 2: 2
Enter the names in File1:
Sooraj
Singh
Enter the names in File2:
Anirudh
KP
Elements in list 1:

Sooraj
Singh

Elements in list 2:

Anirudh
KP

Common names:

There are no common elements.
```