Lab Internal – File Structures.

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1CR18IS151

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

```
cout << "Enter the names in file 2: " << endl;</pre>
    for(i = 0;i<m;i++)</pre>
        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!";</pre>
        exit(0);
    int n = 0, m = 0;
    cout << "Elements in List1 are: "<< endl;</pre>
    while(!f1.eof())
    {
        f1.getline(list1[n],20);
        cout << list1[n] << endl;</pre>
        n++;
    }
    cout << "Elements in List2 are: "<< endl;</pre>
    while(!f2.eof())
    {
        f2.getline(list2[n],20);
        cout << list2[n] << endl;</pre>
        m++;
    }
    int i,j,k;
    i = j = k = 0;
    cout << "Common Names in both the lists are:"<<endl;</pre>
    while (i < n-1 || j < m - 1)
        if (strcmp(list1[i],list2[j]) == 0)
        {
            f3 << list1[i] <<"\n";
             i++;
             j++;
            k++;
```

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.
```

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Program 7: White a program match the two lists using a a Single loop. Output the ha	to Read Censequential ames Cemmon	twon Nam Metch & toboth	nes & The pused and lists.
ode:			
# include < string. h> 1.			
# Mallis in clude (Stellib.h)		• -	
20.12			
Void cleate lists () 6 {		Ã	
Char Mane [20];			
fl. open ["File txt" jos: ov	「/〉		

```
12. open ("File 2. 1x+" 108% ovt);
if ([1, f1) 11 (1, f2))
     Got << "Unable to open the files!";
    Kit (0);
 Cort << " Enter the homes in file 1:";
 Cut << " Enter the total number of homes in file 2:";
 (in >> m;
 Inti:
Cost >> "Cuter the names in file all";
 for (i= 0; i<n; i++) {
   Cin>> name;
   110 Kname;
    fleck "In";
         "Enter the numers in file 2";
6, for 6=0; i(m; i++)
```

```
Gn >> name;
    F2<< name;
    f2(( "\n";
 A. close ();
  f2. (lose ();
Void Coseg match ()
  Char list 1[50] [20], list 2[60] [20];
  fl. open ("File1. +xt", ios: in);
   f2. open (" File 2. txt", ios: 100);
   f3. open ("File 3. +x+", ion8: .. out);
   if ((!f1) 11 (!f2) 11 (!f3))
         Cout << "unable to Cleate new files";
        exit(0);
    int n, m = 0;
    while (1. fl. eof())
```

```
fl. getline (list1[n], 20);
   Coxt << liot 1 [n] << "In";
   M++)
Cort << Elements in list 2: \n"
   << end ;
 while (1. f2. cof())
     f2. get Line (list 2[m], 20);
     Cout << lista [m] << "\n";
   m++;
 int i, j, k;
  言うこり)
 Cort << " Cammon names: In " << endl;
 While (i<n-1 11; <m-1)
     if (8tr Comp(list I [i], list [i]) == 0)
          f3 << liof/[i] <<"\n";
          Cost << "File 3 how" << liof[[i]<<"In";
```

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Cloe it (8tr Comp (liot) [i], liot 2[i] <0) 1++; Odelse j++; if (h= =0) Cost << "There are no Common clements" << enalls Int main () Cleate lits!), 2 (osegmatch(); \$./a.ovt

Output:

Enter the number of names in file 1: 3

Fanter the number of names in file 2-3.

Enter ham es in file 1:

Sorrag Singh Alushay

tenter hames in file 2: Sour cy Stugh Veena. Common hames. File 3 has Soorcy File 3 has Stryh. Ortput 2: \$./a.out' Enterwihames in file 1: 2. Enter wo: of files in file 2'. 2. Enter rames in file 1. Svorag Sprigh. Enter names in file 2'. Anirodh 608. Cemmon homes. thereale no Common homes.