→ FS Lab Internals.

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Program 7: Write a program to Read two lists of names & th match the two lists using Consequential Match based on a Single loop. Output the names common to both lists.

Code:

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

using namespace std;
fstream f1, f2, f3;
void create lists() {
    int n, m;
    char name [20];
    f1.open ("File.txt", ios::out);
```

```cpp
f2.open ("File2.txt", ios::out);
if ((!f1) || (!f2))
{
    cout << "Unable to open the files!";
    exit (0);
}
                            total no. of.
cout << "Enter the names in file 1:";
cin >> n;
cout << "Enter the total number of names in file 2:";
cin >> m;
int i;
cout >> "Enter the names in file 1";
for(i= 0; i<n; i++) {
    cin >> name;
    f1 <<name;
    f1<< "\n";
}
cout ->> "Enter the names in file 2";
for (i= 0; i<m; i++)
{
```

```cpp
        cin >> name;
        f2 << name;
        f2 << "\n";
    }
    f1.close();
    f2.close();
}

void Coseqmatch()
{
    char list1[50][20], list2[60][20];
    f1.open("File1.txt", ios::in);
    f2.open("File2.txt", ios::in);
    f3.open("File3.txt", ios::out);
    if((!f1) || (!f2) || (!f3))
    {
        cout << "unable to create new files";
        exit(0);
    }
    int n,m = 0;

    n=0;
    while(!f1.eof())
    {
```

```cpp
        f1. get line (list1 [n], 20);
        cout << list1 [n] << "\n";
        n++;
    }
    cout << "Elements in list 2: \n"
        << endl;
    while (!f2.eof())
    {
        f2. getline (list2[m], 20);
        cout << list2 [m] << "\n";
        m++;
    }
    int i, j, k;
    i = j = 0;
    k = 0;
    cout << "Common names: \n" << endl;
    while (i < n - 1 || j < m-1)
    {
        if (strcmp(list1 [i], list [j]) == 0)
        {
            f3 << list1 [i] << "\n";
            cout << "File 3 has" << list1[i] << "\n";
            i++
            j++
```

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

int main ()
{
    Create lists();
    Coseqmatch();
}
```

Output:

Enter the number of names in file 1: 3

Enter the number of names in file 2: 3.

Enter names in file 1:

Sooraj

Singh

Akshay

Enter names in file 2:

Sooraj

Singh

Veena.

Common names:

File 3 has Sooraj

File 3 has Singh.

Output 2:

$./a-out'

Enter no. names in file 1: 2.

Enter no. of files in file 2: 2.

Enter names in file 1:

Sooraj

Singh.

Enter names in file 2:

Anirudh ⊗.

RP.

Common names:

there are no common names.