PROGRAM 7

CODE

```cpp
#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("File1.txt",ios::out);
    f2.open("File2.txt",ios::out);
    if((!f1)||(!f2))
    {
        cout<<"Unable to open the files.";
        exit(0);
    }
    cout<<"Enter the number of names in File 1: ";
    cin>>n;
    cout<<"Enter the number of names in File 2: ";
    cin>>m;
    int i;
    cout<<"Enter the names in File1: "<<endl;
    for(i=0;i<n;i++)
    {
        cin>>name;
        f1<<name;
        f1<<"\n";
    }
    cout<<"Enter the names in File2:"<<endl;
    for(i=0;i<m;i++)
    {
        cin>>name;
        f2<<name;
        f2<<"\n";
    }
    f1.close();
    f2.close();
}

void coseqmatch()
{
```

```cpp
        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 files";
                exit(0);
        }
        int n,m=0;
        n=0;
        cout<<"Elements in list 1:\n"<<endl;
        while(!f1.eof()){
                f1.getline(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;
        //implementing cosequential match
        i=j=0;
        k=0;
        cout<<"Common names: \n"<<endl;
        while(i<n-1 || j<m-1)
        {
                if(strcmp(list1[i],list2[j])==0)
                {
                        f3<<list1[i]<<"\n";
                        cout<<"File 3 has "<<list1[i]<<"\n";
                        i++;
                        j++;
                        k++;//counter for the third file
                }
                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();
}
```

Run Debug Stop Share Save {} Beautify Language C++

main.cpp   File1.txt   File2.txt   File3.txt

```cpp
#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("File1.txt",ios::out);
    f2.open("File2.txt",ios::out);
    if((!f1)||(!f2))
    {
        cout<<"Unable to open the files.";
        exit(0);
    }
    cout<<"Enter the number of names in File 1: ";
    cin>>n;
    cout<<"Enter the number of names in File 2: ";
    cin>>m;
    int i;
    cout<<"Enter the names in File1: "<<endl;
    for(i=0;i<n;i++)
    {
```

input

```
Common names:

File 3 has shubhankar

...Program finished with exit code 0
Press ENTER to exit console.
```

Run Debug Stop Share Save {} Beautify Language C++

main.cpp   File1.txt   File2.txt   File3.txt

```cpp
    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 files";
            exit(0);
        }
        int n,m=0;
        n=0;
        cout<<"Elements in list 1:\n"<<endl;
        while(!f1.eof()){
            f1.getline(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;
```
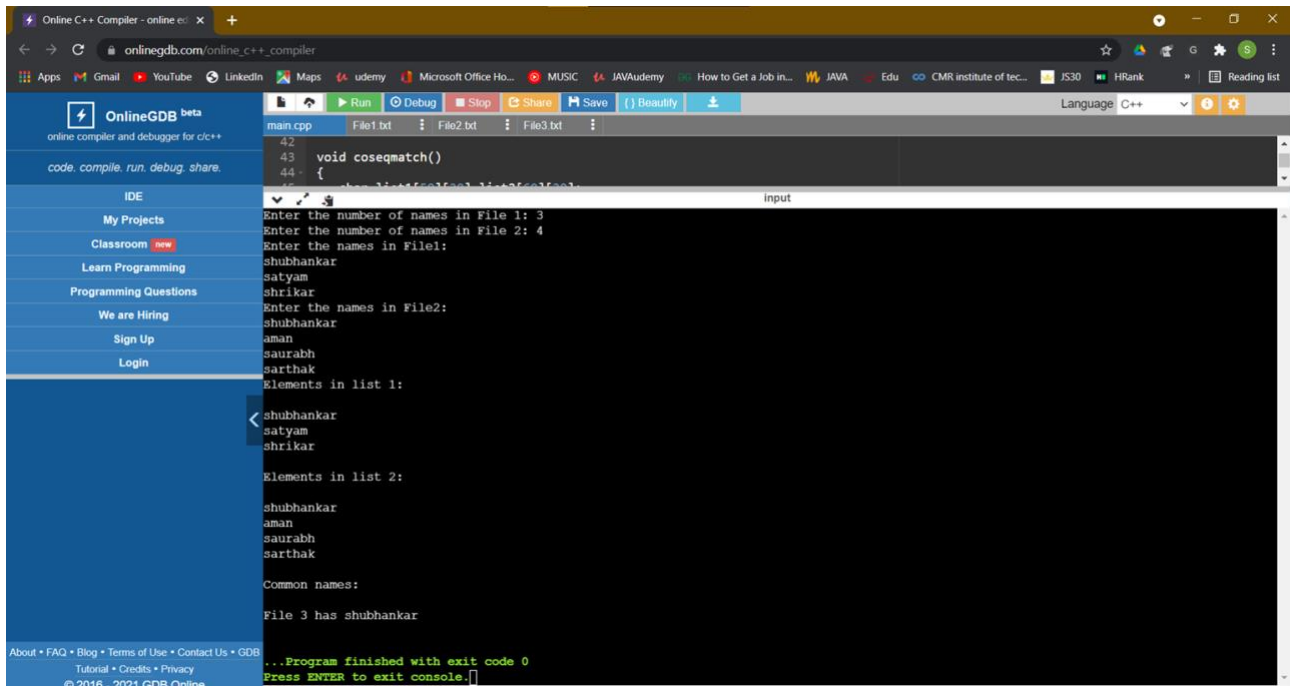
input

```
Common names:

File 3 has shubhankar

...Program finished with exit code 0
Press ENTER to exit console.
```
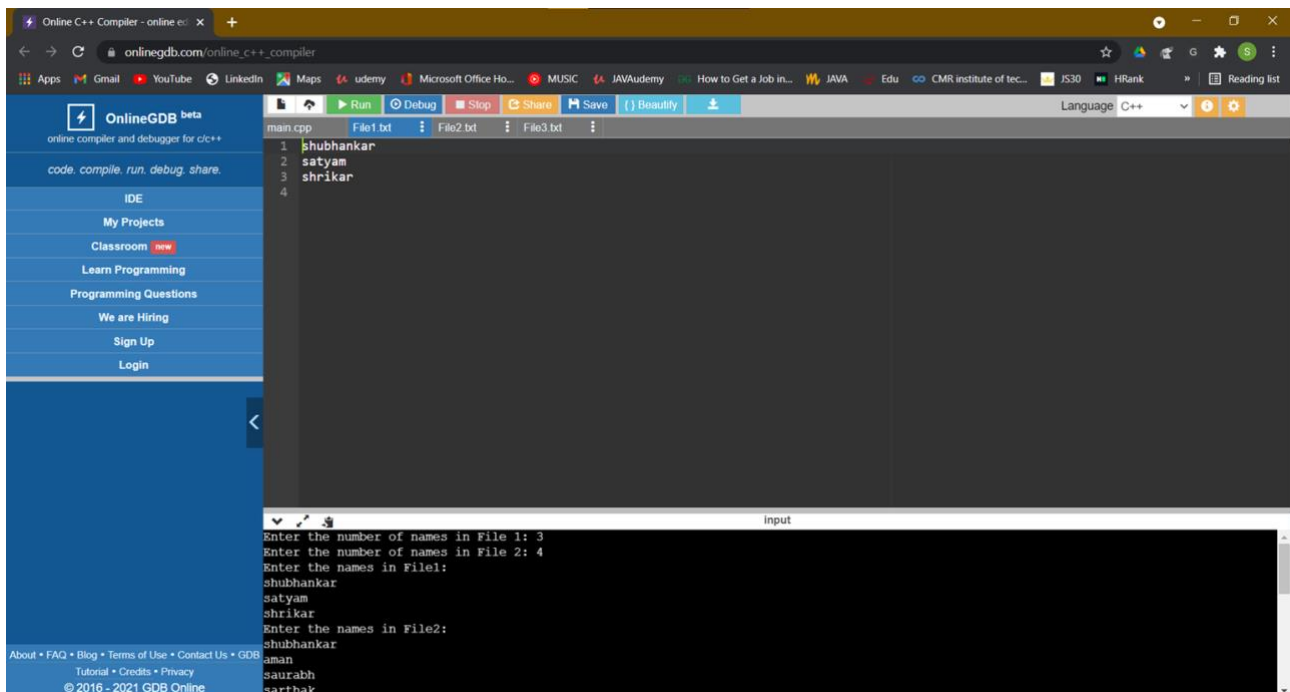
Run   Debug   Stop   Share   Save   { } Beautify

Language   C++

main.cpp   File1.txt   File2.txt   File3.txt

```
1  shubhankar
2  aman
3  saurabh
4  sarthak
5
```

input

```
Enter the number of names in File 1: 3
Enter the number of names in File 2: 4
Enter the names in File1:
shubhankar
satyam
shrikar
Enter the names in File2:
shubhankar
aman
saurabh
sarthak
```