

PROGRAM 7

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("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()
{

```

```

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();
}

```

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```
1 #include<iostream>
2 #include<string.h>
3 #include<fstream>
4 #include<stdlib.h>
5 using namespace std;
6
7 fstream f1,f2,f3;
8
9 void createlists()
10 {
11     int n,m;
12     char name[20];
13     f1.open("File1.txt",ios::out);
14     f2.open("File2.txt",ios::out);
15     if(!f1||!f2)
16     {
17         cout<<"Unable to open the files.";
18         exit(0);
19     }
20     cout<<"Enter the number of names in File 1: ";
21     cin>>n;
22     cout<<"Enter the number of names in File 2: ";
23     cin>>m;
24     int i;
25     cout<<"Enter the names in File1: "<<endl;
26     for(i=0;i<n;i++)
27     {
```

Input

Common names:

File 3 has shubhankar

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

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```
42
43
44 void coseqmatch()
45 {
46     char list1[50][20],list2[50][20];
47     f1.open("File1.txt",ios::in);
48     f2.open("File2.txt",ios::in);
49     f3.open("File3.txt",ios::out);
50     if(!f1||!f2||!f3)
51     {
52         cout<<"Unable to create files";
53         exit(0);
54     }
55     int n,m=0;
56     n=0;
57     cout<<"Elements in list 1:\n"<<endl;
58     while(!f1.eof()){
59         f1.getline(list1[n],20);
60         cout<<list1[n]<<"\n";
61         n++;
62     }
63     cout<<"Elements in list 2:\n"<<endl;
64     while(!f2.eof()){
65         f2.getline(list2[m],20);
66         cout<<list2[m]<<"\n";
67         m++;
68     }
69     int i,j,k;
```

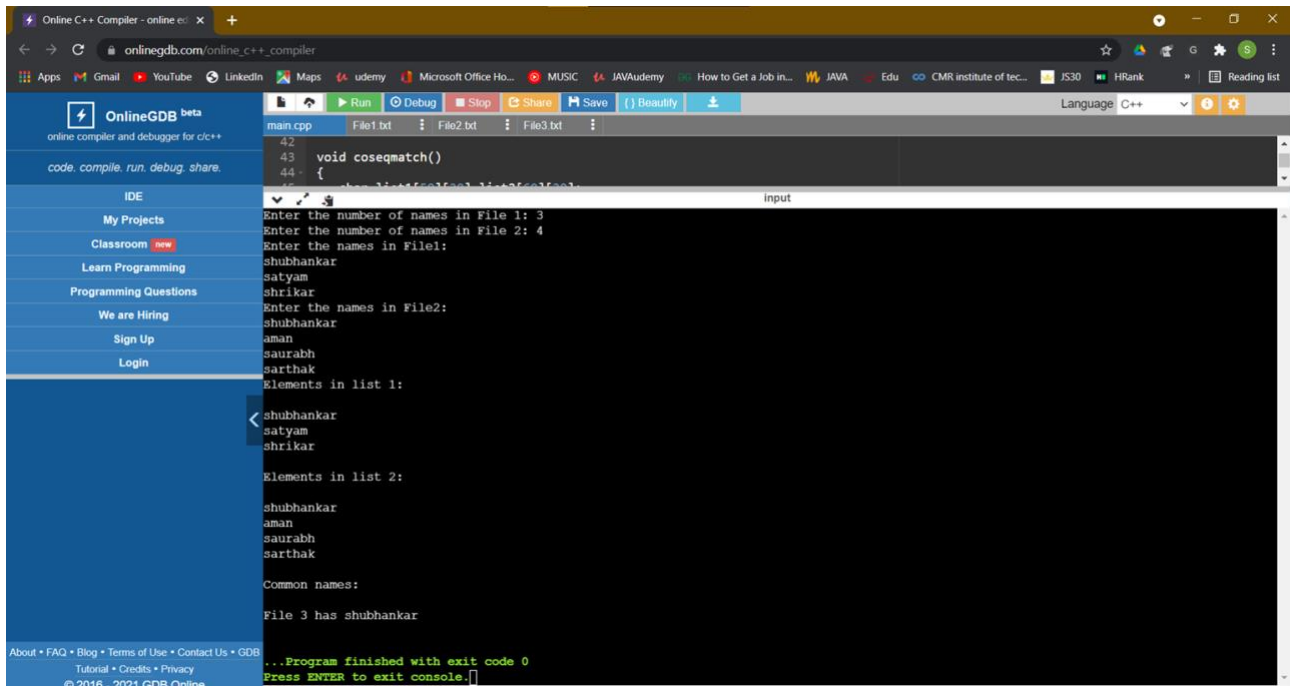
Input

Common names:

File 3 has shubhankar

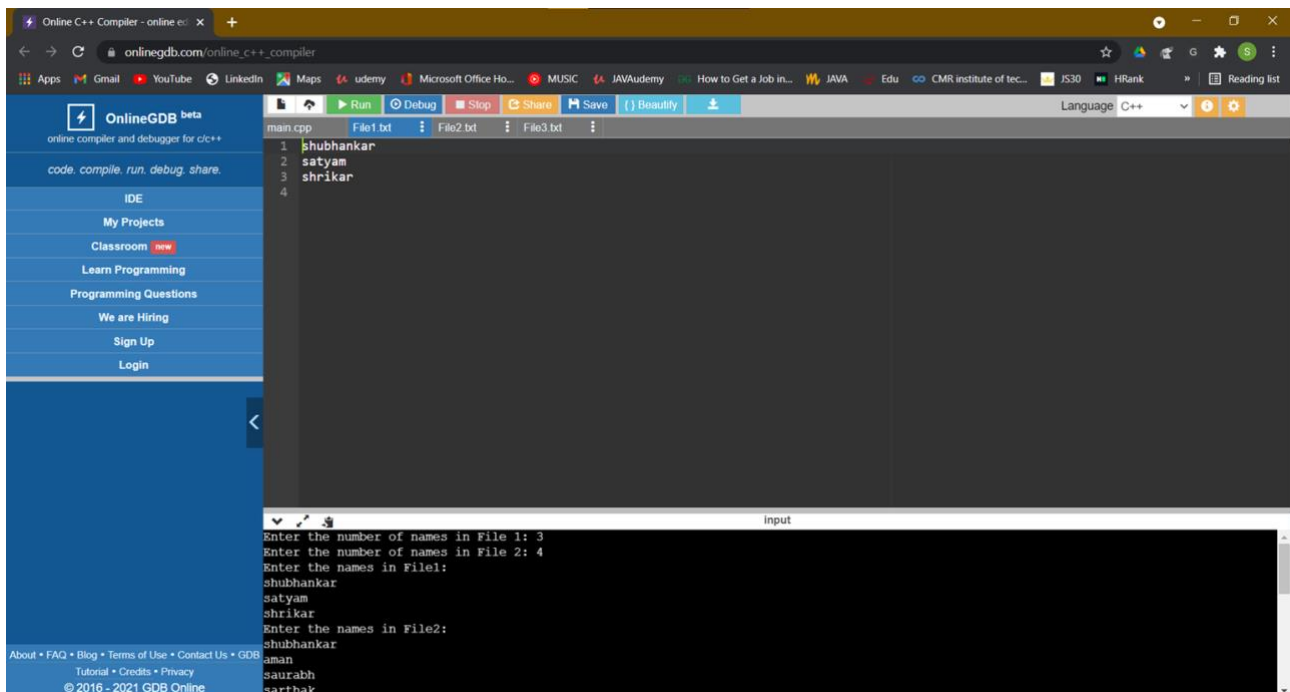
...Program finished with exit code 0
Press ENTER to exit console.

OUTPUT



The screenshot shows the OnlineGDB interface with a C++ program that reads names from three files and finds common ones. The output in the console is as follows:

```
main.cpp | File1.txt | File2.txt | File3.txt |
42
43 void coseqmatch()
44 {
...
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
Elements in list 1:
shubhankar
satyam
shrikar
Elements in list 2:
shubhankar
aman
saurabh
sarthak
Common names:
File 3 has shubhankar
...Program finished with exit code 0
Press ENTER to exit console.
```



The screenshot shows the OnlineGDB interface with the source code of the C++ program. The code is as follows:

```
main.cpp | File1.txt | File2.txt | File3.txt |
1 shubhankar
2 satyam
3 shrikar
4
```

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main.cppFile1.txtFile2.txtFile3.txt

1shubhankar
2aman
3saurabh
4sarthak
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
shrakar
Enter the names in File2:
shubhankar
aman
saurabh
sarthak

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