```
Write a menu driven program that will create a data file containing the list of
numbers in the following form :
john
23456
ahmed 9876...
Use a class object to store each set of data, access the file created and
implement the following
tasks:
I. Determine the telephone number of specified person
II. Determine the name if telephone number is known
III. Update the telephone number, whenever there is a change.
*/
#include<iostream>
#include<string.h>
#include<fstream>
using namespace std;
class tele_dir
  private:char phn[20];
           char name[20];
  public:
          void accept()
           {
             cout<<"\nEnter the name: ";</pre>
             cin>>name;
             cout<<"Enter the contact number: ";</pre>
             cin>>phn;
           }
          void display()
           {
             cout<<name<<"\t
             cout<<phn<<"\t
                                   "<<endl;
          inline char* ct_name()
           {
                return name;
          inline char* ct_contact()
           {
                return phn;
};
int main()
  ifstream fr;
  ofstream fw;
  fstream file;
  tele_dir z;
  char con, con2, op3;
  int op,flag;
  do
  {
    cout<<"\nEnter";</pre>
    cout<<"\n1 :Add contact";
cout<<"\n2 :Display contact";
cout<<"\n3 :Search contact by name";</pre>
    cout<<"\n4 :Search contact by contact";</pre>
    cout<<"\n5 :Update contact details by searching name";</pre>
    cout<<"\n6 :Update contact details by searching contact number";</pre>
    cout<<"\n7 :Exit";</pre>
    cout<<"\nEnter choice: ";</pre>
    cin>>op;
       switch(op)
```

```
{
   case 1:fw.open("contact.txt",ios::app|ios::binary);
         {
                 do
                  {
                          z.accept();
                       fw.write((char *)&z,sizeof(z));
                       cout<<"\nDo you want to add another contact (Y/N) ";</pre>
                        cin>>con2;
                  }while(con2=='y'||con2=='Y');
       fw.close();break;
   case 2: fr.open("contact.txt",ios::in|ios::binary);
                           Contact No.\t\n";
            cout<<"Name\t
            cout<<"************************
           while(!fr.eof())
           {
             fr.read((char *)&z,sizeof(z));
               if(fr)
              z.display();
        fr.close();break;
   case 3:cout<<"\nSearch by name\n";</pre>
      char names[20];
      fr.open("contact.txt",ios::in|ios::binary);
      cout<<"\nEnter the name to search: ";</pre>
      cin>>names;
       {
          while(!fr.eof())
           { fr.read((char *)&z,sizeof(z));
             if(strcmp(names,z.ct_name())==0)
             { flag=1;
                cout<<"Name\t
                                Contact No.\t\n";
                 cout<<"*******************
               z.display();
            }
         if(flag!=1)
            cout<<"\nRecord not found!!";</pre>
      fr.close();
       break;
case 4:cout<<"\nSearch by contact\n";</pre>
      char phns[20];
      fr.open("contact.txt",ios::in|ios::binary);
      cout<<"\nEnter the contact to search: ";</pre>
      cin>>phns;
       { int j;
          while(!fr.eof())
           { fr.read((char *)&z, sizeof(z));
             j=strcmp(phns,z.ct_contact());
             if(j==0)
               flag=1;
               cout<<"Name\t
                                 Contact No.\t\n";
                cout<<"*****************\n";
               z.display();
         if(flag!=1)
            cout<<"\nRecord not found!!";</pre>
      fr.close();
```

break:

```
case 5:cout<<"\nUpdate details by name\n";</pre>
                char names1[20];
               file.open("contact.txt",ios::in|ios::out|ios::binary);
               cout<<"\nEnter the name to update the details: ";</pre>
               cin>>names1;
               int j;
               {
                   while(!file.eof())
                        file.read((char *)&z,sizeof(z));
                        j=strcmp(names1,z.ct_name());
                        if(j==0)
                            flag=1;
                         {
                             file.seekp(-sizeof(z),ios::cur);
                             z.accept();
                             file.write((char *)&z,sizeof(z));
                            cout<<"\nRecord updated successfully"<<endl;</pre>
                   if(flag!=1)
                        cout<<"\nRecord not found";</pre>
                   }
               }file.close();
               break;
       case 6:cout<<"\nUpdate details by contact\n";</pre>
               char phns1[20];
               file.open("contact.txt",ios::in|ios::out|ios::binary);
               cout<<"\nEnter the contact to update the details: ";</pre>
               cin>>phns1;
                 int j;
                   while(!file.eof())
                        file.read((char *)&z,sizeof(z));
                        j=strcmp(phns1,z.ct_contact());
                       if(j==0)
                         {
                              flag=1;
                         file.seekp(-sizeof(z),ios::cur);
                             z.accept();
                         file.write((char *)&z,sizeof(z));
                         cout<<"Record Updated successfully!!";</pre>
                   if(flag!=1)
                     cout<<"\nRecord not found";</pre>
               }file.close();
               break;
         case 7:break;
        default: cout<<"\nInvalid case";break;</pre>
  }while(op!=7);
 return 0;
}
 dell@ghelde-saurabhl6-12-99:~$ g++ ass9oops.cpp
dell@ghe1de-saurabh16-12-99:~$ ./a.out
Enter
1 :Add contact
2 :Display contact
```

```
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 1
Enter the name: saurabh
Enter the contact number: 9146445104
Do you want to add another contact (Y/N) y
Enter the name: akash
Enter the contact number: 7559462520
Do you want to add another contact (Y/N) y
Enter the name: mayuresh
Enter the contact number: 9658624853
Do you want to add another contact (Y/N) y
Enter the name: suraj
Enter the contact number: 8308882710
Do you want to add another contact (Y/N) y
Enter the name: baba
Enter the contact number: 9921717955
Do you want to add another contact (Y/N) n
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 2
Name
             Contact No.
******
saurabh
             9146445104
             7559462520
akash
mayuresh 9658624853
           8308882710
suraj
             9921717955
baba
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 : Update contact details by searching contact number
7 :Exit
Enter choice: 3
Search by name
Enter the name to search: shubham
Record not found!!
Enter
1 :Add contact
```

```
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 3
Search by name
Enter the name to search: suraj
      Contact No.
*******
suraj
           8308882710
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 4
Search by contact
Enter the contact to search: 123456789
Record not found!!
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 : Update contact details by searching contact number
7 :Exit
Enter choice: 4
Search by contact
Enter the contact to search: 9146445104
           Contact No.
Name
saurabh
             9146445104
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 5
Update details by name
Enter the name to update the details: shubham
Record not found!!
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
```

```
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 5
Update details by name
Enter the name to update the details: saurabh
Enter the name: airtel
Enter the contact number: 7387276676
Record updated successfully
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 : Update contact details by searching contact number
7 :Exit
Enter choice: 2
            Contact No.
Name
******
airtel 7387276676
akash
             7559462520
mayuresh 9658624853
surai 8308882710
suraj
baba
             9921717955
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 6
Update details by contact
Enter the contact to update the details: 123456789
Record not found!!
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 6
Update details by contact
Enter the contact to update the details: 7387276676
Enter the name: saurabh
Enter the contact number: 9146445104
Record Updated successfully!!
Enter
1 :Add contact
```

```
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 2
         Contact No.
Name
******
saurabh 9146445104
akash 7559462520
mayuresh 9658624853
suraj 8308882710
baba 9921717955
Enter
1 :Add contact
2 :Display contact
3 :Search contact by name
4 :Search contact by contact
5 :Update contact details by searching name
6 :Update contact details by searching contact number
7 :Exit
Enter choice: 7
*/
```