Open Ended Problem

Develop an object oriented system "Visiting Card Management" which allows user to add, delete and update and search the visiting card details.

```
#include<fstream.h>
#include<iostream.h>
#include<ctype.h>
#include<iomanip.h>
#include<conio.h>
#include<stdio.h>
class account
{
     int id;
     char name[50];
     char address[100];
     char occupation[30];
     char contact[18];
     char email[50];
public:
     void create(); //function to get data from user
     void show();
                     //function to show data on screen
     void modify(); //function to get new data from user
     void report(); //function to show all data
     int retid(); //function to return ID
};
void account::create()
{
     cout<<"\nID. :";</pre>
     cin>>id;
```

```
cout<<"\n\nEnter your Name : ";</pre>
      gets(name);
      cout<<"\nEnter your Occupation : ";</pre>
      gets(occupation);
      cout<<"\nEnter the Address for visiting card : ";</pre>
      gets(address);
      cout<<"\nEnter Contact Number : ";</pre>
      gets(contact);
      cout<<"\nEnter Email ID : ";</pre>
      gets(email);
      cout<<"\n\nAccount Created..";</pre>
}
void account::show()
{
      cout<<"\nID. : "<<id;</pre>
      cout<<"\nName : ";</pre>
      cout<<name;</pre>
      cout<<"\nOccupation : "<<occupation;</pre>
      cout<<"\nAddress : "<<address;</pre>
      cout<<"\nContact : "<<contact;</pre>
      cout<<"\nEmail ID : "<<email;</pre>
}
void account::modify()
{
      cout<<"\nID. :";</pre>
      cin>>id;
      cout<<"\n\nEnter your Name : ";</pre>
      gets(name);
      cout<<"\nEnter your Occupation : ";</pre>
      gets(occupation);
```

```
cout<<"\nEnter the Address for visiting card : ";</pre>
     gets(address);
     cout<<"\nEnter Contact Number : ";</pre>
     gets(contact);
     cout<<"\nEnter Email ID : ";</pre>
     gets(email);
     cout<<"\n\nAccount Modified..";</pre>
}
void account::report()
{
     cout<<id<<setw(7)<<" "<<name<<setw(10)<<" "<<occupation<<endl;</pre>
}
int account::retid()
{
     return id;
}
void write_file();
                           //function to write record in binary file
void display(int);
                           //function to display account details given by
user
void modify file(int);
                           //function to modify record of file
void delete_file(int);
                           //function to delete record of file
void display_all();
                            //function to display all account details
void intro();  //introductory screen function
int main()
{
     int ch;
     int num;
     clrscr();
```

```
intro();
do
{
      clrscr();
      cout<<"\n\n\tMAIN MENU";</pre>
      cout<<"\n\n\t01. NEW VISITING CARD";</pre>
      cout<<"\n\n\t02. ALL CARD HOLDER LIST";</pre>
      cout<<"\n\n\t03. DELETE CARD";</pre>
      cout<<"\n\n\t04. MODIFY VISITING CARD";</pre>
      cout<<"\n\n\t05. SHOW DETAIL OF VISITING CARD";</pre>
      cout<<"\n\n\t06. EXIT";</pre>
      cout<<"\n\n\tSelect Your Option (1-6) ";</pre>
      cin>>ch;
      clrscr();
      switch(ch)
      {
       case 1:
            write_file();
            cout<<"\nDO REMEBER YOUR VISITING CARD ID!";</pre>
            break;
       case 2:
            display all();
            break;
       case 3:
            cout<<"\n\n\tEnter unique ID. : "; cin>>num;
            delete_file(num);
            break;
       case 4:
            cout<<"\n\n\tEnter Unique ID. : "; cin>>num;
            modify_file(num);
```

```
break;
            case 5:
                 cout<<"\n\n\tEnter The account No. : "; cin>>num;
                 display(num);
                 break;
            case 6:
                 cout<<"\n\n\tThanks for using Visting card managemnt</pre>
system";
                 break;
            default :cout<<"\a";</pre>
           }
           getch();
    }while(ch!=6);
     return 0;
}
void write file()
{
     account ac;
     ofstream outFile;
     outFile.open("visting.txt",ios::binary|ios::app);
     ac.create();
     outFile.write((char *) &ac, sizeof(account));
     outFile.close();
}
void display(int n)
{
     account ac;
     int flag=0;
```

```
ifstream inFile;
     inFile.open("visting.txt",ios::binary);
     if(!inFile)
     {
          cout<<"File could not be open !! Press any Key...";</pre>
          return;
     }
     cout<<"\n***************\n";
   while(inFile.read((char *) &ac, sizeof(account)))
     {
          if(ac.retid()==n)
          {
                ac.show();
                flag=1;
           }
     }
   inFile.close();
     if(flag==0)
          cout<<"\n\nAccount number does not exist";</pre>
}
void modify file(int n)
{
     int found=0;
     account ac;
     fstream File;
     File.open("visting.txt",ios::binary|ios::in|ios::out);
     if(!File)
     {
          cout<<"File could not be open !! Press any Key...";</pre>
```

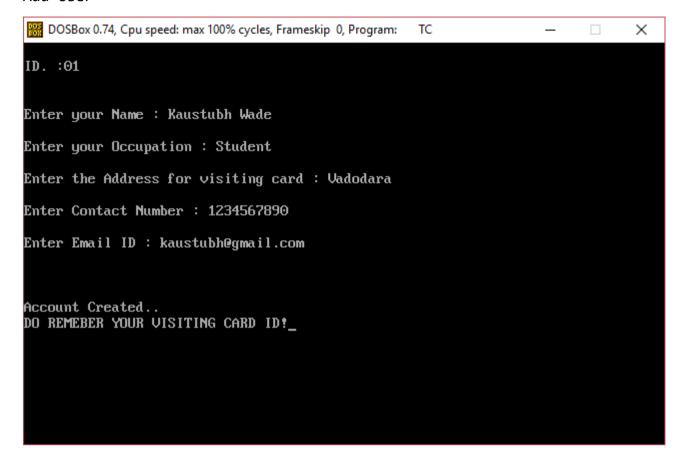
```
return;
     }
    File.seekg(0,ios::beg);
    while(File.read((char *) &ac, sizeof(account)) && found==0)
     {
           if(ac.retid()==n)
           {
                 ac.show();
                 cout<<"\n\nEnter The New Details of account"<<endl;</pre>
                 ac.modify();
                 int pos=(-1)*sizeof(account);
                 File.seekp(pos,ios::cur);
                 File.write((char *) &ac, sizeof(account));
                 cout<<"\n\n\t Record Updated";</pre>
                 found=1;
             }
     }
     File.close();
     if(found==0)
           cout<<"\n\n Record Not Found ";</pre>
}
void delete_file(int n)
{
     account ac;
     ifstream inFile;
     ofstream outFile;
     inFile.open("visting.txt",ios::binary);
     if(!inFile)
     {
```

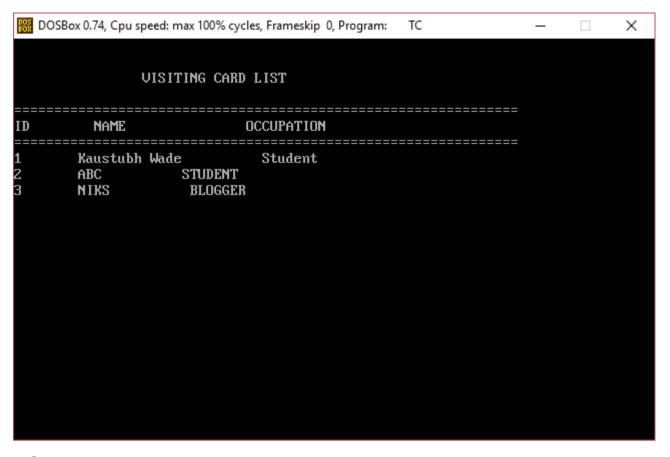
```
cout<<"File could not be open !! Press any Key...";</pre>
           return;
     }
     outFile.open("Temp.txt",ios::binary);
     inFile.seekg(0,ios::beg);
     while(inFile.read((char *) &ac, sizeof(account)))
     {
           if(ac.retid()!=n)
           {
                 outFile.write((char *) &ac, sizeof(account));
           }
     }
     inFile.close();
     outFile.close();
     remove("visting.txt");
     rename("Temp.txt","visting.txt");
     cout<<"\n\n\tRecord Deleted ..";</pre>
}
void display all()
{
     account ac;
     ifstream inFile;
     inFile.open("visting.txt",ios::binary);
     if(!inFile)
     {
           cout<<"File could not be open !! Press any Key...";</pre>
           return;
     }
     cout<<"\n\n\t\tVISITING CARD LIST\n\n";</pre>
```

```
==\n";
   cout<<"ID"<<setw(8)<<" "<<"NAME"<<setw(15)<<" "<<"OCCUPATION"<<endl;</pre>
    ==\n";
   while(inFile.read((char *) &ac, sizeof(account)))
   {
        ac.report();
    }
   inFile.close();
}
void intro()
{
    cout<<"\n\n\t\t\t VISITING CARD";</pre>
   cout<<"\n\n\t\t</pre>
                      MANAGEMENT\n";
   cout<<" \t\t
                      SYSTEM";
   getch();
}
```

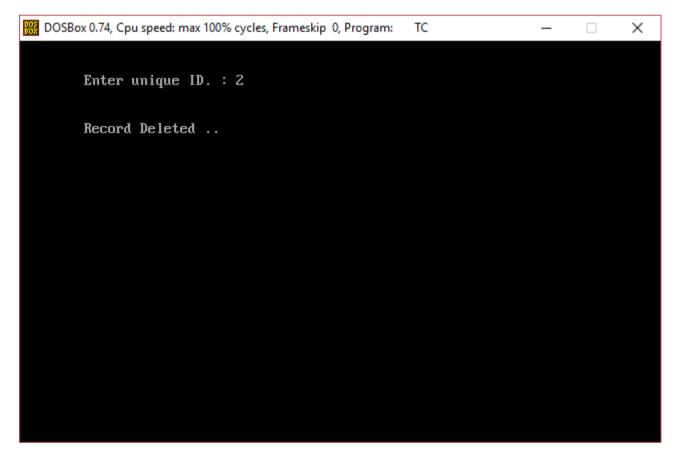
Output:

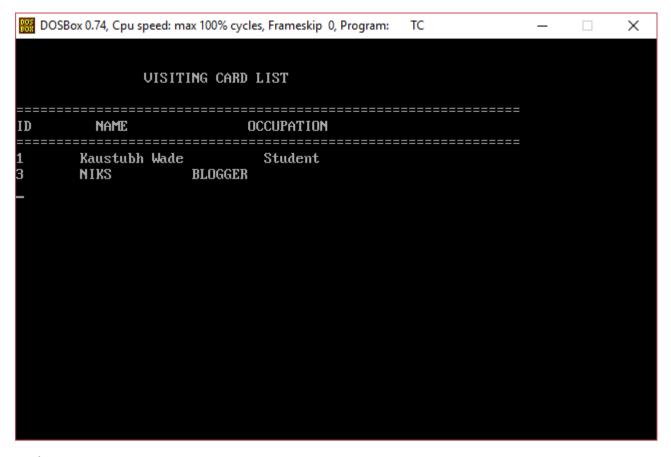
Add User





Delete User





Update User

BBB DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC	_	×
Occupation : BLOGGER Address : ASDSDUDAUURTUBTRBRTBTRBTRBTRBTB Contact : 0192837465 Email ID : GRFEDWOREDIFFMAIL.COM		
Enter The New Details of account		
ID. :2		
Enter your Name : NIK		
Enter your Occupation : BLOGGER		
Enter the Address for visiting card : CEWCECECECE		
Enter Contact Number : 0192837465		
Enter Email ID : ERCUWERUCEWRUREU@REDIFFMAIL.COM		
Account Modified		
Record Updated_		

Search User

