Experiment F23

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#include<iostream>
#include<fstream>
#include<cstdio>
using namespace std;
class employee
{
  int admno;
  char name[50];
  char addr[50];
public:
  void setData()
  {
     cout << "\nEnter Roll NO : . ";
     cin >> admno;
     cout << "Enter name ";</pre>
     cin>>name;
     cout<<"enter the address of the student";
     cin>>addr;
  }
  void showData()
  {
     cout << "\n*Student Roll No : " << admno;
     cout << "\n*Student Name : " << name;</pre>
     cout<<"\n*Address: "<<addr;
  }
  int retAdmno()
     return admno;
  }
};
void write_record()
  ofstream outFile;
  outFile.open("employee.dat", ios::binary | ios::app);
  employee obj;
  obj.setData();
```

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outFile.write((char*)&obj, sizeof(obj));
  outFile.close();
}
void display()
  ifstream inFile;
  inFile.open("employee.dat", ios::binary);
  employee obj;
  while(inFile.read((char*)&obj, sizeof(obj)))
     obj.showData();
  }
  inFile.close();
}
void search(int n)
  ifstream inFile;
  inFile.open("employee.dat", ios::binary);
  employee obj;
  while(inFile.read((char*)&obj, sizeof(obj)))
     if(obj.retAdmno() == n)
       obj.showData();
       break;
     }
  }
  inFile.close();
void delete_record(int n)
  employee obj;
  ifstream inFile;
  inFile.open("employee.dat", ios::binary);
  ofstream outFile;
  outFile.open("temp.dat", ios::out | ios::binary);
```

```
while(inFile.read((char*)&obj, sizeof(obj)))
    if(obj.retAdmno() != n)
       outFile.write((char*)&obj, sizeof(obj));
  }
  inFile.close();
  outFile.close();
  remove("employee.dat");
  rename("temp.dat", "employee.dat");
}
void modify_record(int n)
{
  fstream file;
  file.open("employee.dat",ios::in | ios::out);
  employee obj;
  while(file.read((char*)&obj, sizeof(obj)))
    if(obj.retAdmno() == n)
       cout << "\nEnter the new details of Student";
       obj.setData();
       int pos = -1 * sizeof(obj);
       file.seekp(pos, ios::cur);
       file.write((char*)&obj, sizeof(obj));
    }
  }
  file.close();
int main()
       int ch;
       do{
  \n1.write\n2.display\n3.search\n4.delete\n5.modify";
  cout<<"\nEnter your choice";
  cin>>ch;
  switch(ch){
```

```
int n;
                  cin>>n;
                  for(int i = 0; i < n; i++)
                    write_record();
                  break;
                  case 2:
                          cout << "\nList of records";</pre>
                          display();
                          break;
                  case 3:
                       cout<<"Enter Student Roll No: ";
                       int s;
                       cin>>s;
                       search(s);
                       break;
                  case 4:
                       cout<<"enter no to be deleted";
                       int d;
                       cin>>d;
                  delete_record(d);
                  cout << "\nRecord Deleted";</pre>
                  break;
                  case 5:
                  cout<<"enter rno to be modified";
                  int m;
                  cin>>m;
                  modify_record(m);
                  break;
                  case 6:
  return 0;
  }
}while(ch!=6);
```

case 1: cout<<"Enter number of records: ";