## **Practical 8**

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```
#include <iostream>
                                                        cout<<"\n\nEnter Employee Post
#include<string>
                                                 :";
#include<fstream>
                                                        cin>>post;
                                                      }
using namespace std;
                                                      void display(){
class Employee{
  int emp_id,age;
  char name[30],department[30],post[30];
                                                 cout<<"\n"<<emp_id<<"\t"<<name<<"\t"
                                                 <<salery<<"\t"<<department<<"\t"<<post;
  float salery;
  public:
                                                      }
                                                      int getEmpId(){
                                                        return emp_id;
    void read(){
                                                      }
       cout<<"\n\nEnter Employee Id :";</pre>
                                                 };
       cin>>emp_id;
                                                 void writeInFile(){
       cout<<"\n\nEnter Employee Name
                                                   Employee e;
:";
       cin>>name:
                                                   ofstream ofs;
                                                   e.read(); //accept data from user
       cout<<"\n\nEnter Employee Salary
                                                   ofs.open("emp.dat",ios::binary|ios::app);
:";
                                                   ofs.write((char*)&e,sizeof(e));//write
       cin>>salery;
                                                 data into the file
                                                   ofs.close();
       cout<<"\n\nEnter Employee
                                                 }
Department:";
       cin>>department;
                                                 void readFromFile(){
```

```
Employee e;
                                                     void updateFile( int id){
  ifstream ifs;
                                                       int pos, flag = 0;
  ifs.open("emp.dat",ios::binary);
                                                       fstream fs;
  while(ifs.read((char*)&e,sizeof(e))){
                                                       Employee e;
                                                       fs.open("emp.dat",ios::in | ios::binary |
     e.display();
                                                     ios::out);
  }
  ifs.close();
                                                        while (!fs.eof()) {
}
                                                          // storing the position of current file
                                                     pointer i.e. at the end of previously read
                                                     record
void search( int id){
                                                          pos = fs.tellg();
  ifstream fin;
  int flag=0;
                                                          fs.read((char*)&e, sizeof(e));
  fin.open("emp.dat",ios::binary);
                                                          if (fs) {
  Employee e;
                                                             if (id == e.getEmpId()) {
                                                               flag = 1;
  while(fin.read((char *)&e,sizeof(e))){
     if(id==e.getEmpId()){
            cout<<"\n\nEmployee Id
                                                               e.read();
found..";
             flag=1;
                                                               // placing the put(writing)
                                                     pointer at the starting of the record
             e.display();
                                                               fs.seekp(pos);
     }
  }
                                                               fs.write((char*)&e, sizeof(e));
  if(flag==0){
     cout<<"\nEmployee Not Found....";</pre>
                                                               e.display();
  fin.close();
                                                               break;
}
```

```
}
  fs.close();
  if (flag == 1)
     cout << "\nRecord successfully
modified \n";
  else
     cout << "\nRecord not found \n";</pre>
                                                   \tPost";
}
int main()
  int ch,id;
  while(1){
       cout<<"\nSelect from below
choices";
     cout << "\n1.Insert Data \n2.Display
\n3.Search\n4.Update Reord\n5.Exit";
     cout<<"\nEnter Your Choice:";</pre>
     cin>>ch;
     switch(ch){
       case 1:
               writeInFile();
       break;
                                                      }
                                                      return 0;
       case 2:
cout << "\nEmpId\tEmpName\tSalary\tDept
                                                    Output
\tPost";
```

```
cout<<"\n-----
             readFromFile();
      break;
      case 3:
             cout<<"\n\nEnter Employee
Id to Find Employee:";
             cin>>id;
cout<<"\nEmpId\tEmpName\tSalary\tDept
             cout<<"\n-----
             search(id);
      break;
      case 4:
             cout<<"\nEnter employee
id for updateFile:";
             cin>>id;
             updateFile(id);
      break;
      case 5:
             exit(0);
      break;
             }
```

Select from below choices	
1.Insert Data	EmpId EmpName Salary Dept Post
2.Display	
3.Search	101 sau 100 comp hod
4.Update Reord	Select from below choices
5.Exit	1.Insert Data
Enter Your Choice:1	2.Display
	3.Search
	4.Update Reord
Enter Employee Id:101	5.Exit
	Enter Your Choice:1
Enter Employee Name :sau	
	Enter Employee Id:102
Enter Employee Salary :100	
	Enter Employee Name :om
Enter Employee Department:comp	
	Enter Employee Salary :2000
Enter Employee Post :hod	
	Enter Employee Department:it
Select from below choices	
1.Insert Data	
2.Display	Enter Employee Post :devloper
3.Search	
4.Update Reord	Select from below choices
5.Exit	1.Insert Data
Enter Your Choice:2	2.Display

3.Search	Enter Employee Salary :4000
4.Update Reord	
5.Exit	
Enter Your Choice:3	Enter Employee Department:comp
Enter Employee Id to Find Employee:101	Enter Employee Post :hod
EmpId EmpName Salary Dept Post	101 saurabh 4000 comp hod
	Record successfully modified
Employee Id found	
101 sau 100 comp hod	
Select from below choices	
1.Insert Data	
2.Display	
3.Search	
4.Update Reord	
5.Exit	
Enter Your Choice:4	
Enter employee id for updateFile:101	
Enter Employee Id:101	
Enter Employee Name :saurabh	