```
#include<iostream>
#include<fstream>
#include<stdio.h>
using namespace std;
//Employee class Declaration
class Employee{
    private:
        int code;
        char name[20];
        float salary;
    public:
        void read();
        void display();
        //will return employee code
        int getEmpCode()
                                    { return code; }
        //will return employee salary
        int getSalary()
                                     { return salary; }
        //will update employee salary
        void updateSalary(float s) { salary=s;}
};
//Read employee record
void Employee::read() {
    cout<<"Enter employee code: ";</pre>
    cin>>code;
    cout<<"Enter name: ";</pre>
    cin.ignore(1);
    cin.getline(name, 20);
    cout<<"Enter salary: ";</pre>
    cin>>salary;
}
//Display employee record
void Employee::display()
    cout<<code<<" "<<name<<"\t"<<salary<<endl;</pre>
}
//global declaration
fstream file;
//Will delete file when program is being executed
```

```
//because we are create file in append mode
void deleteExistingFile(){
    remove("EMPLOYEE.DAT");
}
//function to append record into file
void appendToFille() {
    Employee
                 х;
    //Read employee record from user
    x.read();
    file.open("EMPLOYEE.DAT", ios::binary|ios::app);
    if(!file){
        cout << "ERROR IN CREATING FILE \n";
    //write into file
    file.write((char*)&x, sizeof(x));
    file.close();
    cout<<"Record added sucessfully.\n";</pre>
}
void displayAll() {
    Employee
    file.open("EMPLOYEE.DAT",ios::binary|ios::in);
    if(!file){
        cout<<"ERROR IN OPENING FILE \n";</pre>
        return;
    }
    while(file) {
    if(file.read((char*)&x,sizeof(x)))
        if(x.getSalary()>=10000 && x.getSalary()<=20000)</pre>
            x.display();
    }
  file.close();
}
void searchForRecord(){
    //read employee id
    Employee
    int c;
    int isFound=0;
    cout<<"Enter employee code: ";</pre>
    cin>>c;
```

```
file.open("EMPLOYEE.DAT", ios::binary|ios::in);
    if(!file){
        cout<<"ERROR IN OPENING FILE \n";</pre>
        return;
    }
    while(file) {
        if(file.read((char*)&x, sizeof(x))){
             if(x.getEmpCode()==c){
                 cout<<"RECORD FOUND\n";</pre>
                 x.display();
                 isFound=1;
                 break;
             }
        }
    if(isFound==0) {
        cout<<"Record not found!!!\n";</pre>
    file.close();
}
//Function to increase salary
void increaseSalary() {
    //read employee id
    Employee
                х;
    int c;
    int isFound=0;
    float sal;
    cout<<"enter employee code \n";</pre>
    cin>>c;
    file.open("EMPLOYEE.DAT", ios::binary|ios::in);
    if(!file){
        cout<<"ERROR IN OPENING FILE \n";</pre>
        return;
    }
    while(file) {
        if(file.read((char*)&x,sizeof(x))){
             if(x.getEmpCode()==c){
                 cout<<"Salary hike? ";</pre>
                 cin>>sal;
                 x.updateSalary(x.getSalary()+sal);
                 isFound=1;
```

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break;
            }
        }
    }
    if(isFound==0){
        cout<<"Record not found!!!\n";</pre>
    }
    file.close();
    cout<<"Salary updated successfully."<<endl;</pre>
}
//Insert record by assuming that records are in
//ascending order
void insertRecord() {
    //read employee record
    Employee
                х;
    Employee newEmp;
    //Read record to insert
    newEmp.read();
    fstream fin;
    //read file in input mode
    file.open("EMPLOYEE.DAT", ios::binary|ios::in);
    //open file in write mode
    fin.open("TEMP.DAT", ios::binary|ios::out);
    if(!file){
        cout<<"Error in opening EMPLOYEE.DAT file!!!\n";</pre>
        return;
    }
    if(!fin){
        cout<<"Error in opening TEMP.DAT file!!!\n";</pre>
        return;
    while(file) {
        if(file.read((char*)&x, sizeof(x))){
            if(x.getEmpCode()>newEmp.getEmpCode()){
                 fin.write((char*)&newEmp, sizeof(newEmp));
            }
            //no need to use else
            fin.write((char*)&x, sizeof(x));
        }
    }
    fin.close();
    file.close();
```

```
rename("TEMP.DAT", "EMPLOYEE.DAT");
    remove("TEMP.DAT");
    cout<<"Record inserted successfully."<<endl;</pre>
}
int main()
{
     char ch;
    //if required then only remove the file
     deleteExistingFile();
     do{
     int n;
     cout << "ENTER CHOICE\n" << "1.ADD AN
EMPLOYEE\n"<<"2.DISPLAY\n"<<"3.SEARCH\n"<<"4.INCREASE SALARY\n"<<"5.INSERT
RECORD\n";
     cout<<"Make a choice: ";</pre>
     cin>>n;
     switch(n){
          case 1:
             appendToFille();
            break;
          case 2 :
            displayAll();
            break;
          case 3:
             searchForRecord();
            break;
        case 4:
             increaseSalary();
            break;
        case 5:
             insertRecord();
            break;
          default :
                 cout<<"Invalid Choice\n";</pre>
     }
     cout<<"Do you want to continue ? : ";</pre>
     cin>>ch;
     }while(ch=='Y'||ch=='y');
```

```
return 0;
```