```
#include<iostream>
#include<fstream>
#include<stdio.h>

using namespace std;

class Employee{
    private:
        int code;
        char name[20];
        float salary;
    public:
        void read();
        void display();
        int getEmpCode()            { return code;}
        int getSalary()             { return salary;}
        void updateSalary(float s)  { salary=s;}
};

void Employee::read(){
    cout<<"Enter employee code: ";
    cin>>code;
    cout<<"Enter name: ";
    cin.ignore(1);
    cin.getline(name,20);
    cout<<"Enter salary: ";
    cin>>salary;
}

void Employee::display()
{
    cout<<code<<" "<<name<<"\t"<<salary<<endl;
```

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}


fstream file;

void deleteExistingFile(){
   remove("EMPLOYEE.TXT");
}


void appendToFille(){
   Employee    x;

   x.read();

   file.open("EMPLOYEE.TXT",ios::binary|ios::app);
   if(!file){
      cout<<"ERROR IN CREATING FILE\n";
      return;
   }
   file.write((char*)&x,sizeof(x));
   file.close();
   cout<<"Record added sucessfully.\n";
}

void displayAll(){
   Employee    x;

   file.open("EMPLOYEE.TXT",ios::binary|ios::in);
   if(!file){
      cout<<"ERROR IN OPENING FILE \n";
      return;
```

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    }
    while(file){
    if(file.read((char*)&x,sizeof(x)))
        if(x.getSalary()>=10000 && x.getSalary()<=20000)
            x.display();
    }
  file.close();
}

void searchForRecord(){
    Employee    x;
    int c;
    int isFound=0;

    cout<<"Enter employee code: ";
    cin>>c;


    file.open("EMPLOYEE.TXT",ios::binary|ios::in);
    if(!file){
        cout<<"ERROR IN OPENING FILE \n";
        return;
    }
    while(file){
        if(file.read((char*)&x,sizeof(x))){
            if(x.getEmpCode()==c){
                cout<<"RECORD FOUND\n";
                x.display();
                isFound=1;
                break;
            }
        }
```

```
    }
    if(isFound==0){
        cout<<"Record not found!!!\n";
    }
    file.close();
}

void increaseSalary(){
    Employee    x;
    int c;
    int isFound=0;
    float sal;

    cout<<"enter employee code \n";
    cin>>c;


    file.open("EMPLOYEE.TXT",ios::binary|ios::in);
    if(!file){
        cout<<"ERROR IN OPENING FILE \n";
        return;
    }
    while(file){
        if(file.read((char*)&x,sizeof(x))){
            if(x.getEmpCode()==c){
                cout<<"Salary hike? ";
                cin>>sal;
                x.updateSalary(x.getSalary()+sal);
                isFound=1;
                break;
            }
        }
```

```
    }
    if(isFound==0){
        cout<<"Record not found!!!\n";
    }
    file.close();
    cout<<"Salary updated successfully."<<endl;
}

void insertRecord(){
    Employee    x;
    Employee newEmp;

    newEmp.read();

    fstream fin;
    file.open("EMPLOYEE.TXT",ios::binary|ios::in);
    fin.open("TEMP.TXT",ios::binary|ios::out);

    if(!file){
        cout<<"Error in opening EMPLOYEE.DAT file!!!\n";
        return;
    }
    if(!fin){
        cout<<"Error in opening TEMP.DAT file!!!\n";
        return;
    }
    while(file){
        if(file.read((char*)&x,sizeof(x))){
            if(x.getEmpCode()>newEmp.getEmpCode()){
                fin.write((char*)&newEmp, sizeof(newEmp));
            }
            fin.write((char*)&x, sizeof(x));
```

```
        }
    }

    fin.close();
    file.close();

    rename("TEMP.DAT","EMPLOYEE.TXT");
    remove("TEMP.TXT");
    cout<<"Record inserted successfully."<<endl;
}

int main()
{
     char ch;
     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: ";
     cin>>n;

     switch(n){
          case 1:
            appendToFille();
            break;
          case 2 :
            displayAll();
            break;
```

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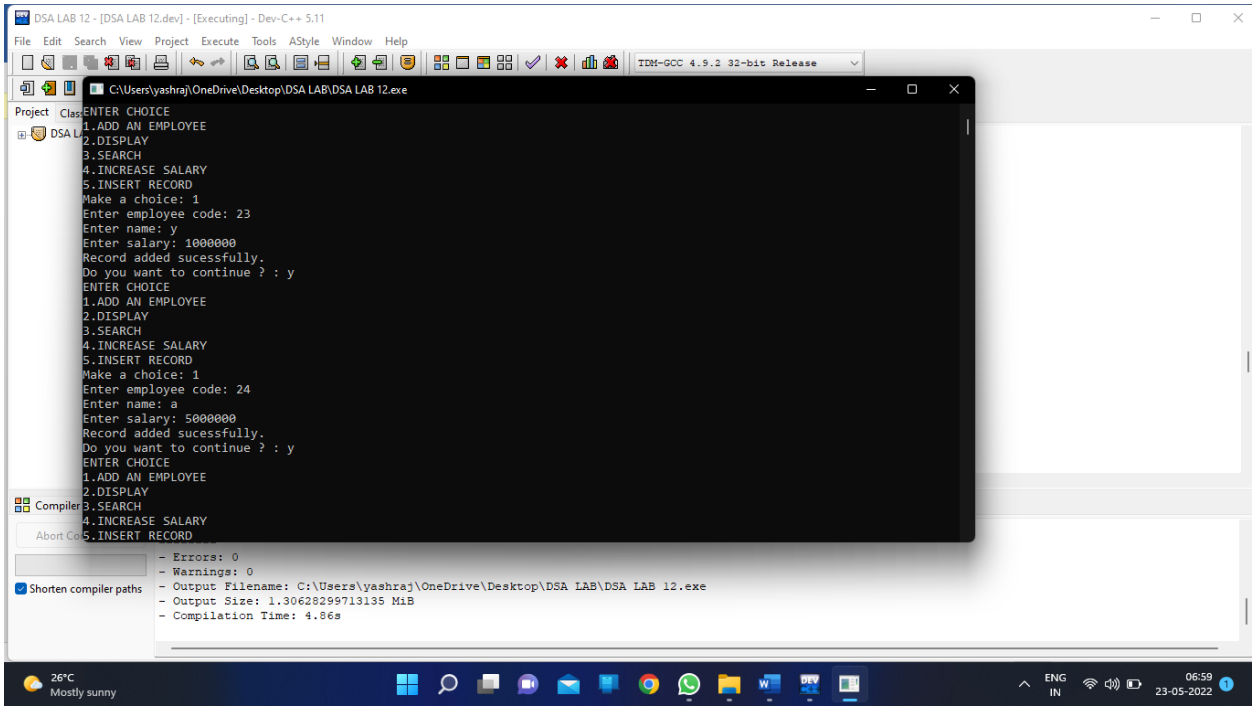
        case 3:
          searchForRecord();
          break;
       case 4:
          increaseSalary();
          break;
       case 5:
          insertRecord();
          break;

        default :
             cout<<"Invalid Choice\n";
    }

    cout<<"Do you want to continue ? : ";
    cin>>ch;

    }while(ch=='Y'||ch=='y');

   return 0;
}
```


DSA LAB 12 - [DSA LAB 12.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 32-bit Release
C:\Users\yashraj\OneDrive\Desktop\DSA LAB\DSA LAB 12.exe
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Make a choice: 1
Enter employee code: 23
Enter name: y
Enter salary: 1000000
Record added sucessfully.
Do you want to continue ? : y
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Make a choice: 1
Enter employee code: 24
Enter name: a
Enter salary: 5000000
Record added sucessfully.
Do you want to continue ? : y
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Project
Compiler
Shorten compiler paths
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\yashraj\OneDrive\Desktop\DSA LAB\DSA LAB 12.exe
- Output Size: 1.30628299713135 MiB
- Compilation Time: 4.86s
26°C
Mostly sunny
ENG
IN
06:59
23-05-2022