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CLASS: SE COMPUTER
DIV: A
BATCH: B3
ASSIGNMENT NO:12

CODE:

```
#include<iostream>
#include<fstream>
#include<stdio.h>
using namespace std;
//Employee class Declaration
class Employee
private:
char name[20]; float salary;
int code:
public:
void read(); void display():
//will return employee code
int getEmpCode()
(
retum code:
}
//will return employee salary
int getSalary()
{
return salary,
//will update employee salary void updateSalary(float s)
salary-s;
}:
//Read employee record
vold Employee::read(){ cout<<"Enter employee code:"; cin>>code; cout<<"Enter name: ";
cin.ignore(1); cin.getline(name,20); cout<<"Enter salary: ";
cin>>salary:
}
//Display employee record
void Employee::display()
{
cout<<code<<""<<name<<"\t"<<salary<<endl;
```

```
//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 x:
//Read employee record from user x.read();
file.open("EMPLOYEE.DAT", jos::binary|ios::app);
if(!file)(
cout<<"ERROR IN CREATING FILE\n";
return;
//write into file
file.write((char*)&x,sizeof(x));
file.close():
cout<<"Record added sucessfully.\n";
}
void displayAll() [Employee x;
file.open("EMPLOYEE.DAT", los binary[ios::in);
if(!file)(
cout<<"ERROR IN OPENING FILE \n";
return;
while(file)
{
if(file.read((char*)&x,sizeof(x)))
if(x.getSalary()>=10000 && x.getSalary()<=20000) x.display();
}
file.close();
void searchForRecord(){
//read employee id
Employee x;
int c int is Found=0;
cout<<"Enter employee code: ":
cin>>c;
file.open("EMPLOYEE.DAT",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(is Found==0)(
cout<<"Record not found!!\n";
}
file.close():
//Function to increase salary
void increase Salary(){
//read employee id
Employee x:
int c:
int isFound=0; float sal;
cout<<"enter employee code \n";
cin>>c;
file.open("EMPLOYEE.DAT", los::binaryjios::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); is Found=1;
break;
} if(is Found==0)(
cout<<"Record not found!!!\n";
}
file.close():
cout<<"Salary updated successfully."<<endl;
}
//Insert record by assuming that records are in
//ascending order
void insertRecord(){
//read employee record
Employee x;
Employee newEmp;
//Read record to insert
```

```
newEmp.read();
fstream fin;
//read file in input mode
file.open("EMPLOYEE.DAT",los::binarylios::in);
//open file in write mode
fin.open("TEMP.DAT", los::binaryţios::out);
if(Ifile)
cout<<"Error in opening EMPLOYEE.DAT filellin"; return;
}
If{ Ifin}{
cout<<"Error in opening TEMP.DAT filelllun"; 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;
}
Int main()
{
char ch;
//if required then only remove the file
delete ExistingFile();
do{ int n;
cout<<"ENTER CHOICE\n<<"1 ADD AN
EMPLOYEE"<<*2.DISPLAY\n"<<*3.SEARCH\n" <<*4.INCREASE SALARY\n"<<*5.INSERT
RECORDVI";
cout<<"Make a choice: "; cin>>n;
switch(n){ case 1:
appendToFille(); break;
case 2:
displayAll(); break;
case 3: search ForRecord(); break;
case 4:
Increase Salary(); 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;
}
```

OUTPUT:

```
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Make a choice: 1
Enter employee code: 01
Enter name: Ankit
Enter salary: 60000
Record added sucessfully.
Do you want to continue 7: y
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Make a choice: 1
Enter employee code: 02
Enter name: Pranav
Enter salary: 50000
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: 2
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: 3
Enter employee code: 01
RECORD FOUND 1 Ankit 60000
Do you want to continue?: y
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD
Make a cholce: 4
enter employee code 02
Salary hike? 10000
Salary updated successfully.
Do you want to continue ?: y
ENTER CHOICE
1.ADD AN EMPLOYEE
2.DISPLAY
3.SEARCH
4.INCREASE SALARY
5.INSERT RECORD Make a cholce: 5
Enter employee code: 03
Enter name: Yash
Enter salary: 50000
```

```
Record inserted successfully.
Do you want to continue?: n
...Program finished with exit code 0
Press ENTER to exit console.
```