



Experiment - 2.4

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Branch: CSE

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Subject Name: PBLJ Lab

UID: 20BCS9256

Section/Group: 616 'B'

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Subject Code: 20CSP-321

Aim –

To create an Employee Management System, according to the given requirements: a menu-application with the following options.

1. Add an Employee
2. Display All
3. Exit

If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file.

If option 2 is selected, the application should display all the employee details.

If option 3 is selected the application should exit.

Code:

```
package com.campany;
```

```
import java.util.ArrayList;
```

```
import java.util.Scanner;
```

```
class emp_db {
```

```
    int id, age;
```

```
    String name;
```

```
    float salary;
```

```
    void getdata(int id, String name, int age, float salary) {
```

```
        this.id = id;
```

```
        this.name = name;
```

```
        this.age = age;
```

```
        this.salary = salary;
```

```
    }
```

```
}
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        System.out.println("Employee Database:- \n");
```

```
        Scanner sc = new Scanner(System.in);
```



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```
emp_db emp = new emp_db();
ArrayList<emp_db> db = new ArrayList();
int ch, j = 0;
do {
    System.out.println("\n1. Add Employee\n2. Display All\n3. Exit\n");
    System.out.println("Enter Choice: ");
    ch = sc.nextInt();
    switch (ch) {
        case 1:
            System.out.println("Enter Employee ID: ");
            int id = sc.nextInt();
            System.out.println("Enter Employee Name: ");
            sc.nextLine();
            String name = sc.nextLine();
            System.out.println("Enter Employee Age: ");
            int age = sc.nextInt();
            System.out.println("Enter Employee Salary: ");
            float salary = sc.nextFloat();
            emp.getdata(id, name, age, salary);
            db.add(emp);
            j++;
            break;
        case 2:
            System.out.println("----- Report      \n");
            for (int i = 0; i < j; i++) {
                System.out.println(db.get(i).id + "\t" + db.get(i).name + "\t" +
db.get(i).age + "\t"
                                + db.get(i).salary + "\n");
            }
            System.out.println("----- End of Report      \n");
            break;
        case 3:
            System.out.println("Exiting the System");
            sc.close();
            System.exit(0);
        default:
            }
    } while (ch != 3);
}
```

Output:

```
Employee Database:-

1. Add Employee
2. Display All
3. Exit

Enter Choice:
1
Enter Employee ID:
101
Enter Employee Name:
Rahul
Enter Employee Age:
23
Enter Employee Salary:
45000

1. Add Employee
2. Display All
3. Exit
```

```
1. Add Employee
2. Display All
3. Exit

Enter Choice:
2
----- Report

101    Rahul    23    45000.0

----- End of Report

1. Add Employee
2. Display All
3. Exit

Enter Choice:
3
Exiting the System
```

Learning outcomes (What I have learnt):

1. Learnt while loop.
2. File manipulation concept understood.
3. Created file and performed all operation of file.
4. Learnt the concept of switch concept.
5. Learnt concept of inbuilt function in file such as FileOutputStream & FileInputStream.



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Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	