Experiment Title – 2.4

Student Name: YANA SRIVASTAVA **UID:** 20BCS2279
Branch: BE-CSE **Section/Group:** 20BCS-WM-906/B
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Subject Name: PBLJ LAB **Subject Code:** 21 CSP-321

1. Aim/Overview of the practical: Employee Management System

Create a menu based Java 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.

2. Software/Hardware Requirements: IntelliJ

3. Algorithm/pseudo code:

Step1: Start execution.

Step2: Declare 4 ArrayList to store employee name, empoyee id, designation and salary.

Step3: Using the constructor add values to the arraylist.

Step4: Make a display function to Display the contents of each arraylist using a for loop.

Step5: In main function take choices as input inside a switch statement.

Step6: Call the relevant functions as per the entered choices.

Step7: Stop execution.

4. Steps for experiment/practical/Code:

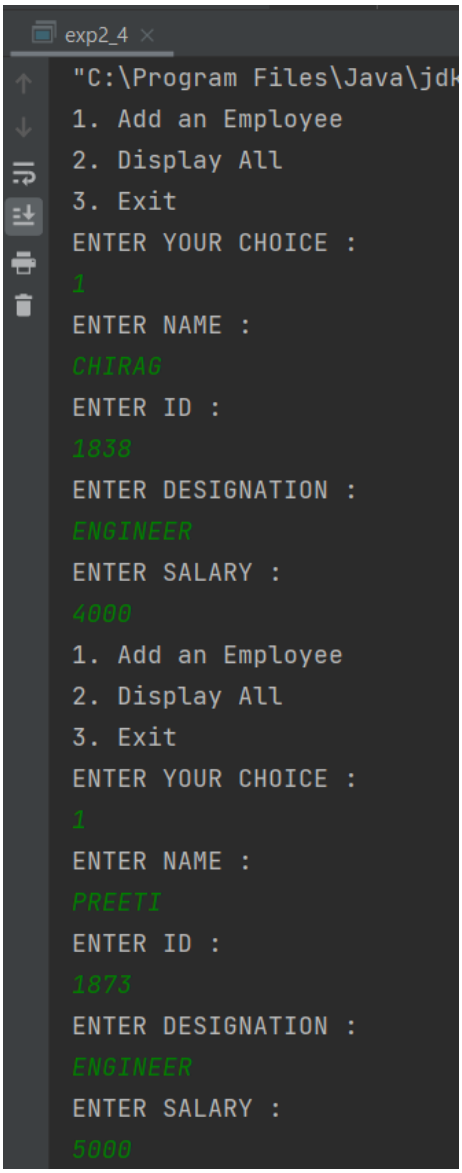
```
package com.chirag;

import java.io.*;

import java.util.*;


class exp2_4 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        int choice;

        String name, designation;

        int id, salary;

        FileWriter fileWriter = null;

        BufferedWriter bufferedWriter = null;

        FileReader fileReader = null;

        BufferedReader bufferedReader = null;

        do {

            System.out.println("1. Add an Employee");

            System.out.println("2. Display All");
```

```
System.out.println("3. Exit");
System.out.println("ENTER YOUR CHOICE : ");
choice = input.nextInt();
switch (choice) {
    case 1:
        try {
            fileWriter = new FileWriter("employee.txt",
                    true);
            bufferedWriter = new BufferedWriter(fileWriter);
            System.out.println("ENTER NAME : ");
            name = input.next();
            System.out.println("ENTER ID : ");
            id = input.nextInt();
            System.out.println("ENTER DESIGNATION : ");
            designation = input.next();
            System.out.println("ENTER SALARY : ");
            salary = input.nextInt();
            bufferedWriter.write(name + " " + id + " " +
                    designation + " " + salary);
            bufferedWriter.newLine();
            bufferedWriter.close();
```

```
        } catch (IOException e) {
            System.out.println("ERROR OCCURED");
        }
        break;
    case 2:
        try {
            fileReader = new FileReader("employee.txt");
            bufferedReader = new BufferedReader(fileReader);
            String line;
            while ((line = bufferedReader.readLine()) != null) {
                System.out.println(line);
            }
            bufferedReader.close();
        } catch (IOException e) {
            System.out.println("ERROR OCCURED");
        }
        break;
    case 3:
        System.out.println("EXITING");
        break;
    default:
```

```
                System.out.println("INVALID CHOICE");
            }
        } while (choice != 3);
    }
}
```

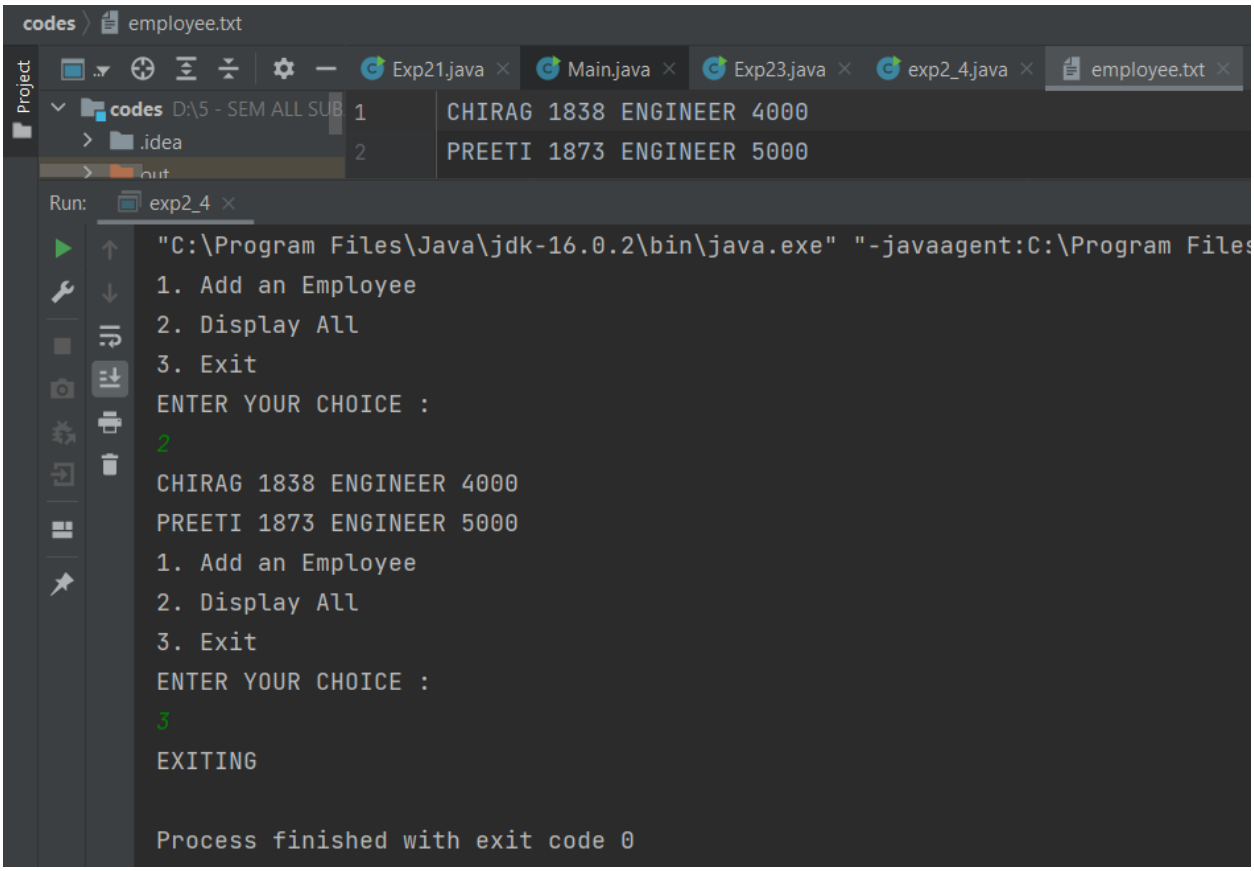
5. Result/Output/Writing Summary:



SCREENSHOT - 1

```
5000
1. Add an Employee
2. Display All
3. Exit
ENTER YOUR CHOICE :
2
CHIRAG 1838 ENGINEER 4000
PREETI 1873 ENGINEER 5000
1. Add an Employee
2. Display All
3. Exit
ENTER YOUR CHOICE :
3
EXITING

Process finished with exit code 0
```

SCREENSHOT - 2



SCREENSHOT - 3

Learning outcomes (What I have learnt):

1. **Learned about ArrayList.**
2. **Learned about Switch Statement.**
3. **Learned about ArrayList Travesal.**
4. **Learned how to store entries directly to txt file.**