Experiment Title: 2.4

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Branch: CSE Section/Group: MM_806 / B

Semester: 5th Subject Code: 20CSP-321

Subject Name: PBLJ

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:

VS Code/ IntelliJ

3. Algorithm/pseudo code:

- Start execution.
- Declare 4 ArrayList to store employee name, empoyee id, designation and salary.
- Using the constructor add values to the arraylist.
- Make a display function to Display the contents of each arraylist using a for loop.
- In main function take choices as input inside a switch statement.
- Call the relevant functions as per the entered choices.
- Stop execution.



4. Steps for experiment/practical/Code:

```
import java.io.*;
import java.util.Scanner;
class FileReadWrite{
    void WriteData() {
        int age, salary, id;
        String name;
        id= Input.inputInt("Employee ID");
        name= Input.inputString("Employee name");
        age= Input.inputInt("Employee age");
        salary= Input.inputInt("Employee Salary");
        FileOutputStream fos;
        try {
            fos = new FileOutputStream("text.txt", true);
            DataOutputStream dos= new DataOutputStream(fos);
            dos.writeInt(id);
            dos.writeUTF(name);
            dos.writeInt(age);
            dos.writeInt(salary);
            dos.flush();
            fos.close();
        } catch (Exception e) {
            e.printStackTrace();
    void ReadData() {
        FileInputStream fis;
        try {
            fis = new FileInputStream("text.txt");
            DataInputStream dis= new DataInputStream(fis);
            int c=1;
            while(true){
                int age, salary, id;
                String name;
                id = dis.readInt();
```



```
name= dis.readUTF();
               age= dis.readInt();
               salary= dis.readInt();
               System.out.println("Employee "+ (c++));
               System.out.println("Employee Id: "+ id);
               System.out.println("Employee Name: "+ name);
               System.out.println("Age: "+age);
               System.out.println("Salary: "+ salary);
               System.out.println("----");
               // dis.close();
       } catch (FileNotFoundException e)
       } catch (IOException e)
   }
public class Exp2_4 {
   public static void main(String[] args) {
       System.out.println("Aryan Jangir_20BCS1671");
       FileReadWrite obj= new FileReadWrite();
       while(true) {
           System.out.println("========");
           System.out.println("Employee Data: \n\t1. Add employee\n\t2. Display All\n\t3. "+
"Exit");
           int a= Input.inputInt("Option");
           switch (a) {
               obj.WriteData();
               break:
           case 2: {
               obj.ReadData();
               break;
```

5. Result/Output/Writing Summary:



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PROBLEMS 140 DEBUG CONSOLE TERMINAL JUPYTER SQL CONSOLE Microsoft Windows [Version 10.0.22621.674] (c) Microsoft Corporation. All rights reserved. C:\Users\Lenovo\Desktop\java program>cd "c:\Users\Lenovo\Desktop\java program\" && javac Aryan Jangir 20BCS1671 Employee Data: 1. Add employee 2. Display All 3. Exit Enter Option: 1 Enter Employee ID: 12 Enter Employee name: Aryan Enter Employee age: 21 Enter Employee Salary: 54000 Employee Data: Add employee 2. Display All 3. Exit Enter Option: 1 Enter Employee ID: 13 Enter Employee name: Happy Enter Employee age: 21 Enter Employee Salary: 60000 Employee Data: 1. Add employee 2. Display All 3. Exit Enter Option: 2 Employee 1 Employee Id: 12 Employee Name: Aryan Age: 21 Salary: 54000 Employee 2 Employee Id: 13 Employee Name: Happy Age: 21 Salary: 60000



Employee Data:

1. Add employee

2. Display All

3. Exit
Enter Option: 3
Exit Successully

c:\Users\Lenovo\Desktop\java program>

6.Learning outcomes (What I have learnt):

- Learned about ArrayList.
- Learned about Switch Statement.
- Learned about ArrayList Traversal.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

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