

## Experiment – 5

Student Name: Himanshu Gupta UID: 23BCS10889

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#### Aim:

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.

### **Objective:**

To combine object-oriented programming, file handling, and menu-driven console interaction.

#### **Procedure:**

- 1. Present a menu:
- a) Add Employee
- b) Display All
- c) Exit
- 2. On choosing Add, take input for:
- a) Employee Name
- b) Employee ID
- c) Designation
- d) Salary
- 3. Write this data to a file.
- 4. On choosing Display, read and display all employee data from the file.
- 5. Exit on selection of option 3.

# Sample Output -

#### Menu:

1. Add Employee



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2. Display All

3. Exit

Enter choice: 1 Name: John ID: 1001

Designation: Manager

Salary: 75000

Employee added successfully!

Enter choice: 2 Employee List:

John | 1001 | Manager | 75000

### Code -

```
package Experiment_Codes;
import java.io.*;
import java.util.*;
class Employee {
   private String name;
   private String id;
   private String designation;
    private double salary;
    public Employee(String name, String id, String designation, double salary) {
        this.name = name;
        this.id = id;
        this.designation = designation;
        this.salary = salary;
    public String toFileString() {
        return name + "|" + id + "|" + designation + "|" + salary;
    public static Employee fromFileString(String line) {
        String[] parts = line.split("\\|");
        return new Employee(parts[0], parts[1], parts[2],
Double.parseDouble(parts[3]));
    public String toString() {
       return name + " | " + id + " | " + designation + " | " + salary;
```



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```
public class Experiment5 {
    private static final String FILE_NAME = "employees.txt";
    private static Scanner sc = new Scanner(System.in);
    public static void main(String[] args) {
        while (true) {
            System.out.println("\nMenu:");
            System.out.println("1. Add Employee");
            System.out.println("2. Display All");
            System.out.println("3. Exit");
            System.out.print("\nEnter choice: ");
            int choice = sc.nextInt();
            sc.nextLine();
            switch (choice) {
                case 1:
                    addEmployee();
                    break;
                case 2:
                    displayAll();
                    break;
                case 3:
                    System.out.println("Exiting...");
                    System.exit(0);
                default:
                    System.out.println("Invalid choice! Try again.");
    private static void addEmployee() {
        System.out.print("Name: ");
        String name = sc.nextLine();
        System.out.print("ID: ");
        String id = sc.nextLine();
        System.out.print("Designation: ");
        String designation = sc.nextLine();
        System.out.print("Salary: ");
        double salary = sc.nextDouble();
        sc.nextLine();
        Employee emp = new Employee(name, id, designation, salary);
```



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```
try (BufferedWriter bw = new BufferedWriter(new FileWriter(FILE NAME,
true))) {
            bw.write(emp.toFileString());
            bw.newLine();
            System.out.println("Employee added successfully!");
        } catch (IOException e) {
            System.out.println("Error writing to file.");
    private static void displayAll() {
        System.out.println("\nEmployee List:");
        try (BufferedReader br = new BufferedReader(new FileReader(FILE NAME))) {
            String line;
            while ((line = br.readLine()) != null) {
                Employee emp = Employee.fromFileString(line);
                System.out.println(emp);
        } catch (FileNotFoundException e) {
            System.out.println("No employees found.");
        } catch (IOException e) {
            System.out.println("Error reading file.");
```

#### Output -

PS C:\Users\gupta\OneDrive\Desktop\S

```
' '-cp' 'C:\Users\gupta\AppData\Roan
es.Experiment5'
Menu:

    Add Employee

2. Display All
                                      Menu:
3. Exit
                                      1. Add Employee
                                      2. Display All
Enter choice: 1
                                      3. Exit
Name: Himanshu Gupta
                                      Enter choice: 2
ID: 10889
Designation: CEO
                                      Employee List:
Salary: 10000000
                                      Himanshu Gupta | 10889 | CEO | 1.0E7
Employee added successfully!
```