**Exercise 4: Employee Management System**

**Employee.java**

public class Employee {

    int employeeId;

    String name;

    String position;

    double salary;

    public Employee(int employeeId, String name, String position, double salary) {

        this.employeeId = employeeId;

        this.name = name;

        this.position = position;

        this.salary = salary;

    }

    public String toString() {

        return "Employee[ID=" + employeeId + ", Name=" + name + ", Position=" + position + ", Salary=₹" + salary + "]";

    }

}

**EmployeeManager.java**

package employee;

public class EmployeeManager {

    private Employee[] employees = new Employee[100];

    private int count = 0;

    public void addEmployee(Employee emp) {

        if (count < employees.length) {

            employees[count++] = emp;

            System.out.println("Employee added.");

        } else {

            System.out.println("Employee list is full.");

        }

    }

    public Employee searchEmployee(int id) {

        for (int i = 0; i < count; i++) {

            if (employees[i].employeeId == id) {

                return employees[i];

        }

    }

    return null;

}

    public void deleteEmployee(int id) {

        for (int i = 0; i < count; i++) {

            if (employees[i].employeeId == id) {

                for (int j = i; j < count - 1; j++) {

                    employees[j] = employees[j + 1];

                }

            employees[--count] = null;

            System.out.println("Employee deleted.");

            return;

        }

        }

        System.out.println("Employee not found.");

    }

        public void displayAllEmployees() {

            if (count == 0) {

                System.out.println("No employees to display.");

                return;

            }

            for (int i = 0; i < count; i++) {

                System.out.println(employees[i]);

            }

        }

}

**Main.java**

package employee;

public class Main {

    public static void main(String[] args) {

        EmployeeManager manager = new EmployeeManager();

        Employee e1 = new Employee(101, "Alice", "Manager", 75000);

        Employee e2 = new Employee(102, "Boris", "Developer", 55000);

        Employee e3 = new Employee(103, "Cyrus", "HR", 48000);

        manager.addEmployee(e1);

        manager.addEmployee(e2);

        manager.addEmployee(e3);

        System.out.println("\nAll Employees:");

        manager.displayAllEmployees();

        System.out.println("\nSearching for employee with ID 102:");

        Employee found = manager.searchEmployee(102);

        System.out.println(found != null ? found : "Not found");

        System.out.println("\nDeleting employee with ID 101:");

        manager.deleteEmployee(101);

        System.out.println("\nFinal Employee List:");

        manager.displayAllEmployees();

    }

}

**Output**

