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import java.util.*;

class Employee {
    int id;
    String name;
    double salary;

    Employee(int id, String name, double salary) {
        this.id = id;
        this.name = name;
        this.salary = salary;
    }

    public String toString() {
        return "ID: " + id + ", Name: " + name + ", Salary: " + salary;
    }
}

public class PayrollSystem {
    static Stack<Employee> history = new Stack<>();
    static List<Employee> employees = new ArrayList<>();

    public static void addEmployee(int id, String name, double salary) {
        try {
            if (salary < 0) throw new IllegalArgumentException("Salary cannot be negative!");
            Employee emp = new Employee(id, name, salary);
            employees.add(emp);
            history.push(emp);
            System.out.println("Employee added: " + emp);
        } catch (Exception e) {
            System.out.println("Error: " + e.getMessage());
        }
    }

    public static void displayEmployees() {
        if (employees.isEmpty()) {
            System.out.println("No employees in payroll.");
        } else {
            System.out.println("Payroll List:");
            for (Employee emp : employees) {
                System.out.println(emp);
            }
        }
    }

    public static void undoLast() {
        try {
            if (history.isEmpty()) throw new EmptyStackException();
            Employee removed = history.pop();
            employees.remove(removed);
            System.out.println("Undo successful. Removed: " + removed);
        }
    }
}

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    } catch (EmptyStackException e) {
        System.out.println("No operations to undo!");
    }
}

public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int choice;

    do {
        System.out.println("\n--- Payroll Menu ---");
        System.out.println("1. Add Employee");
        System.out.println("2. Display Employees");
        System.out.println("3. Undo Last Operation");
        System.out.println("4. Exit");
        System.out.print("Enter your choice: ");
        choice = sc.nextInt();

        switch (choice) {
            case 1:
                System.out.print("Enter Employee ID: ");
                int id = sc.nextInt();
                sc.nextLine(); // consume newline
                System.out.print("Enter Employee Name: ");
                String name = sc.nextLine();
                System.out.print("Enter Employee Salary: ");
                double salary = sc.nextDouble();
                addEmployee(id, name, salary);
                break;

            case 2:
                displayEmployees();
                break;

            case 3:
                undoLast();
                break;

            case 4:
                System.out.println("Exiting program...");
                break;

            default:
                System.out.println("Invalid choice! Try again.");
        }
    } while (choice != 4);

    sc.close();
}

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