import java.util.\*;

class SimplePayroll {

    static String[] names = new String[100];

    static double[] salaries = new double[100];

    static int[] undoIndex = new int[100];

    static int count = 0;

    static int undoCount = 0;

    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {

        while (true) {

            System.out.println("\n1. Add Employee");

            System.out.println("2. Show Payroll");

            System.out.println("3. Undo Last");

            System.out.println("4. Exit");

            System.out.print("Choice: ");

            int ch;

            try {

                ch = Integer.parseInt(sc.nextLine());

                if (ch == 1) {

                    addEmployee();

                } else if (ch == 2) {

                    showPayroll();

                } else if (ch == 3) {

                    undoLast();

                } else if (ch == 4) {

                    break;

                } else {

                    System.out.println("Invalid choice!");

                }

            } catch (Exception e) {

                System.out.println("Error: " + e.getMessage());

            }

        }

    }

    static void addEmployee() throws Exception {

        System.out.print("Enter name: ");

        String name = sc.nextLine();

        System.out.print("Enter salary: ");

        double salary = Double.parseDouble(sc.nextLine());

        if (name.isEmpty() || salary <= 0)

            throw new Exception("Invalid Name or Salary");

        names[count] = name;

        salaries[count] = salary;

        undoIndex[undoCount++] = count;

        count++;

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

    }

    static void showPayroll() throws Exception {

        if (count == 0)

            throw new Exception("No employees to display!");

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

            if (names[i] != null) {

                System.out.println(names[i] + " - Salary: " + salaries[i]);

            }

        }

    }

    static void undoLast() throws Exception {

        if (undoCount == 0)

            throw new Exception("Nothing to undo!");

        int idx = undoIndex[--undoCount];

        System.out.println("Removed last added employee: " + names[idx]);

        names[idx] = null;

        salaries[idx] = 0;

    }

}