Clean Java Programs — DisplayPattern and Rectangle

1) DisplayPattern.java

Description: This program displays a simple text pattern in the console.

```
public class DisplayPattern {
    public static void main(String[] args) {
        System.out.println(" J A V V A");
        System.out.println(" J A A V V A A");
        System.out.println("J J AAAAA V V AAAAA");
        System.out.println(" JJ A A V A A");
        System.out.println(" JJ A A V A A");
    }
}
```

Compile and Run:

JJ A A

V

A A

2) Rectangle.java

Description: This program takes width and height as command-line arguments and calculates the area and perimeter of a rectangle.

```
public class Rectangle {
    public static void main(String[] args) {
        if (args.length < 2) {
            System.out.println("Usage: java Rectangle <width> <height>");
            return;
        }
        double width = 0.0;
        double height = 0.0;
        try {
            width = Double.parseDouble(args[0]);
            height = Double.parseDouble(args[1]);
        } catch (NumberFormatException e) {
            System.out.println("Please provide valid numbers for width and height.");
            return;
        }
        double area = width * height;
        double perimeter = 2 * (width + height);
```

```
System.out.println("Width: " + width);
System.out.println("Height: " + height);
System.out.println("Area: " + area);
System.out.println("Perimeter: " + perimeter);
}
```

Compile and Run Example:

javac Rectangle.java
java Rectangle 4.5 7.9

Sample Output:

Width: 4.5 Height: 7.9 Area: 35.55 Perimeter: 24.8