Learning Objectives:

- to learn about packages and its applications
- to learn about Interface and its applications

Reference for Packages: https://www.w3schools.com/java/java_packages.asp
Reference for Interface: https://www.w3schools.com/java/java_interface.asp

Lab Task:

<< interface >>
Shape
+ getArea(): double   *+ getPerimeter(): double*

Triangle
- base: double   - height: double
+ Triangle()   + Triangle(b: double, h: double)   + setBase(b: double): void   + setHeight(h: double): void   + getBase(): double   + getHeight(): double   + getArea(): double   + getPerimeter(): double   + toString(): String

Rectangle
- length: double   - width: double
+ Rectangle()   + Rectangle(l: double, w: double)   + setLength(l: double): void   + setWidth(w: double): void   + getLength(): double   + getWidth(): double   + getArea(): double   + getPerimeter(): double   + toString(): String

Suppose, Shape is an interface and Triangle, Rectangle are two classes those implement that interface. Now accomplish the following tasks.

a) Create an instance of the Triangle and Rectangle class respectively and you must read their initialization values from the user.

b) Print the status of both instances using the toString() method.
[Hint: Status for Triangle instance: base: p, height: q, area: r and perimeter: s and Status for Rectangle instance: length: p, width: q, area: r and perimeter: s, where p, q, r, s are real numbers.]