

Assignment No. 3

GRN:

Name of the Student:

Roll No.:

Class:

Division:

Batch:

Problem Statement

Calculate area of triangle, square & circle using function overloading. Function parameter accept from user. Create Base Class **Shape** and Derived Classes **Triangle**, **Square**, **Circle** respectively. Implement **getInputs()** Method for accepting inputs, and Overload **setArea()** method for calculating area of respective shapes.

Use Class **Tester** for creating objects.

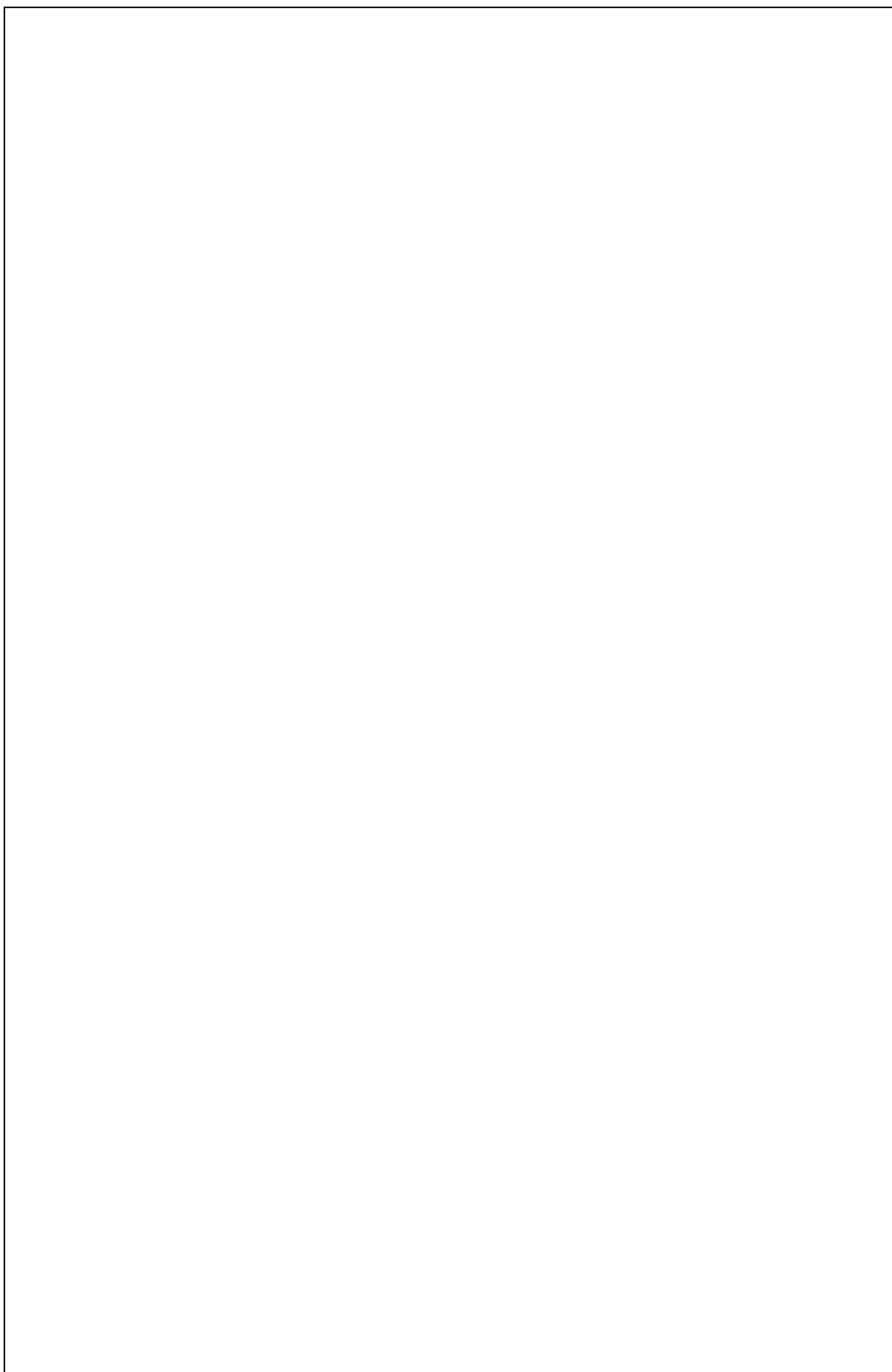
Sample Input and Output

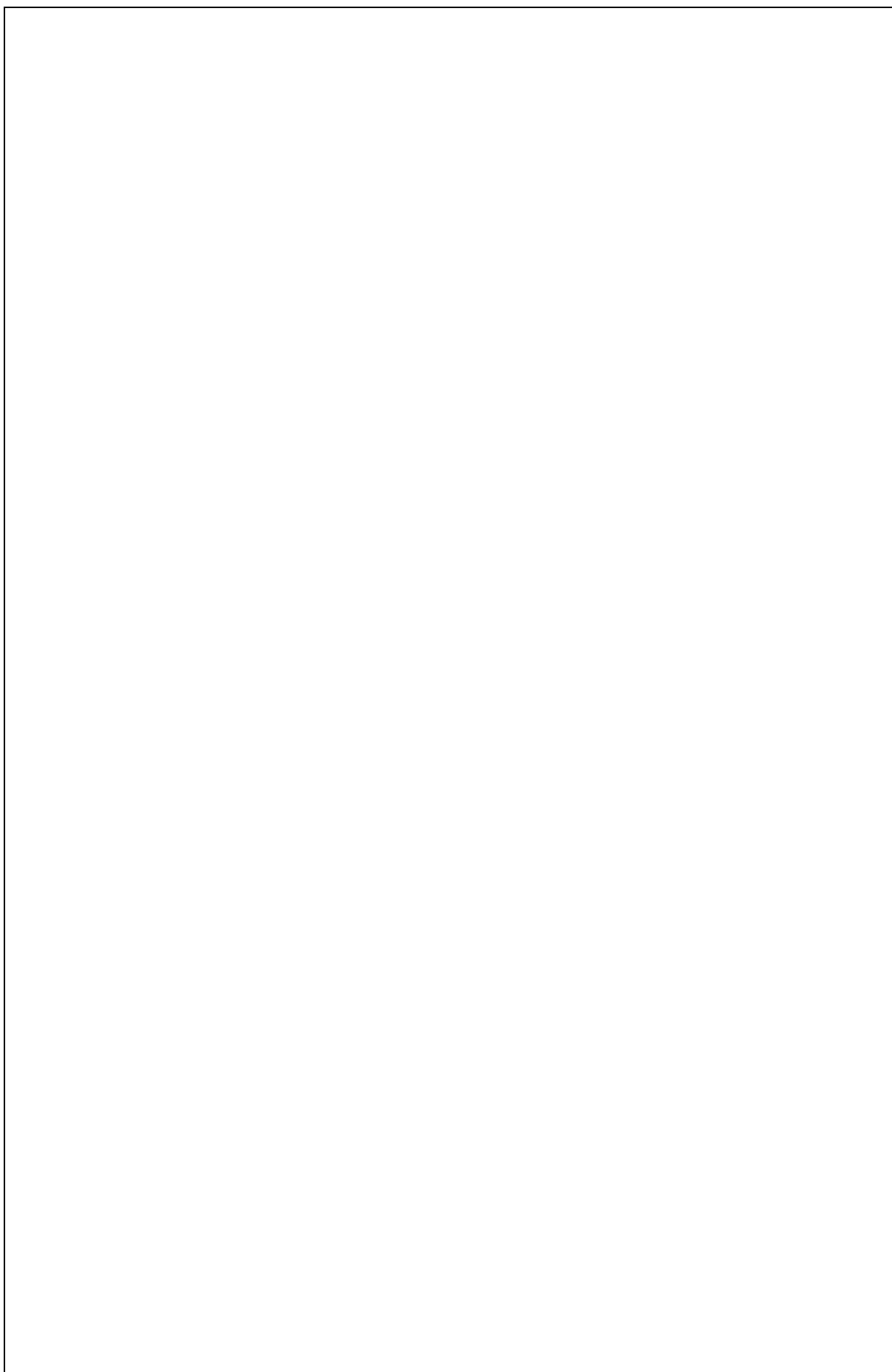
| Sample Input/Parameter for Triangle | Values | Expected Output |
|-------------------------------------|--------|-----------------|
| Height (H) | 50 | 2500 |
| Base (B) | 100 | |

| Sample Input/Parameter for Circle | Values | Expected Output |
|-----------------------------------|--------|-----------------|
| π (Pie) | 3.14 | 7853.98 |
| Radius (R) | 50 | |

| Sample Input/Parameter for Square | Values | Expected Output |
|-----------------------------------|--------|-----------------|
| Side (S) | 15 | 225 |

Add your code here





Expected Output: