

## EXERCISE 5

### TASK 1

Type the above definition of a Triangle class and save in a file.

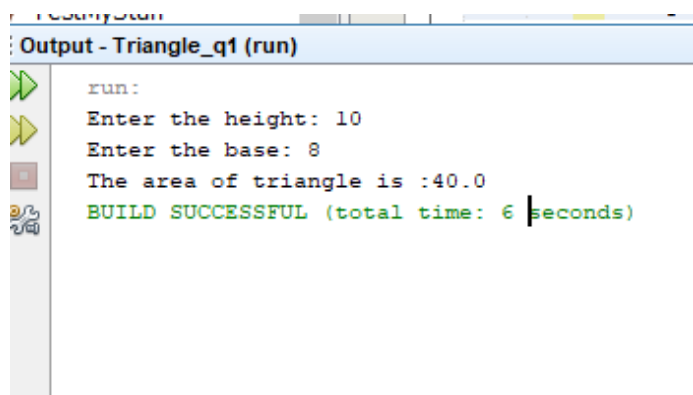
1. What is the name to be given to this file?

-Triangle\_q1.class

2. Compile this file. If you get any error, it means that you haven't typed correctly the given codes.

3. After a successful compilation, now try to run. Explain what happened and why.

-run compiler because no main method called



```
run:
Enter the height: 10
Enter the base: 8
The area of triangle is :40.0
BUILD SUCCESSFUL (total time: 6 seconds)
```

### TASK 2

```
----jGRASP exec: java TriangleDemo
```

```
Enter the height:10
```

```
Enter the base:8
```

```
The pyramid's height is 10.0
```

```
The pyramid's base is 8.0
```

```
The pyramid's area is 40.0
```

```
----jGRASP: operation complete.
```

```
|
```

3. List **ALL** the following items based on the Triangle class:

a) object  
- Triangle

b) user-defined methods with return value

-getHeight()  
-getBase()  
-getArea()

c) user-defined methods with passing-parameters

-set(Height, Base) → set(double len, double b)

d) accessor methods

-setHeight()  
-setBase()  
-set(double len, double b)

e) mutator methods

-getHeight()  
-getBase()  
-getArea()

### TASK 3

```
Output - PayrollDemo (run)

run:
Enter your employee ID Number:2150
Enter your Gross Pay:RM4000
Enter your State Tax:RM300
Enter your Federal Tax:RM500

*****INFORMATION*****
Employee ID Number :2150
Gross pay :RM4000.0
State tax :RM300.0
Federal tax :RM500.0
Net pay is : RM 3200.0
*****
BUILD SUCCESSFUL (total time: 10 seconds)
```