

Java Basics

Training Assignments

Document Code	25e-BM/HR/HDCV/FSOFT	
Version	1.1	
Effective Date	20/11/2012	

RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	
1	:	Create a new short Assignment		DieuNT1	VinhNV
					<u>.</u>

Contents

signment_01	. 4
Objective:	
Exercise 1	. 4
Exercise 2	. 4
Exercise 3	. 5
Exercise 4	. 5
Exercise 5	. 5
Exercise 6	. 5
Exercise 7	. 5
Problem Descriptions:	. 6
Guidelines:	



CODE: TYPE: **SHORT**

LOC: 70

DURATION: 60 MINUTES

Assignment_01

Objective:

- ✓ Able to install the compilation, execution environment and write the first java program.
- ✓ Run an application based on Java technology from the command line

Exercise 1

Write a Java program, called *ArithmeticExercise1* to print the result of the following operations.

Test Data:

- a. -5 + 8 * 6
- b. (55+9) % 9
- c. 20 + -3*5 / 8
- d. 5 + 15 / 3 * 2 8 % 3

Expected Output:

- 43
- 1
- 19
- 13

Exercise 2

Write a Java program, called ArithmeticExercise2 to print the sum (addition), multiply, subtract, divide and remainder of two numbers.

Test Data:

Input first number: 125

Input second number: 24

Expected Output:

$$125 + 24 = 149$$

$$125 - 24 = 101$$

$$125 \times 24 = 3000$$

$$125 / 24 = 5$$

Exercise 3

Write a Java program, called *JavaExercise* to display the following pattern.

Sample Pattern:

```
Javva
Jaavvaa
JJaaaaa VVaaaaa
JJa aVa a
```

Exercise 4

Write a Java program, called *ArithmeticExercise3* to compute the specified expressions and print the output.

Test Data:

```
((25.5 * 3.5 - 3.5 * 3.5) / (40.5 - 4.5))
Expected Output
2.138888888888889
```

Exercise 5

Write a Java program, called *CircleExercise* to enter radius of a circle and print the area, perimeter of this circle.

Test Data:

Radius = 7.5

Expected Output

```
Perimeter is = 47.12388980384689
Area is = 176.71458676442586
```

Exercise 6

Write a Java program, called *RectangleExercise* to enter the width and height of a rectangle and print the area and perimeter of this rectangle.

Test Data:

Width =
$$5.5$$
 Height = 8.5

Expected Output:

```
Area is 5.6 * 8.5 = 47.60
Perimeter is 2 * (5.6 + 8.5) = 28.20
```

Exercise 7

Write a Java program, called *LogicalExercise* to compare two numbers.

Input Data:

Input first integer: 25
Input second integer: 39

Expected Output:

25 != 39

25 < 39

25 <= 39

Problem Descriptions:

» Write a java console program to resolve this assignment

Guidelines:

» Create a project named **Java.S.A101**, create package *fa.training.assignment1* that contains the above classes.

-- THE END --