



Java Basics

Training Assignments

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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	26/Apr/2020	Create a new short Assignment	Create new	DieuNT1	VinhNV

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CODE:	JPE.S.A201
TYPE:	SHORT
LOC:	70
DURATION:	60 MINUTES

Short Assignment_201

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: Data type and Operators

Specifications

Write a Java program to find the value of specified expression.

- ✓ a) $101 + 0 / 3$
- ✓ b) $3.0e-6 * 10000000.1$
- ✓ c) `true && true`
- ✓ d) `false && true`
- ✓ e) `(false && false) || (true && true)`
- ✓ f) `(false || false) && (true && true)`

Output

```
(101 + 0) / 3)-> 33
✓ (3.0e-6 * 10000000.1)-> 30.0000003
✓ (true && true)-> true
✓ (false && true)-> false
✓ ((false && false) || (true && true))-> true
✓ (false || false) && (true && true)-> false
✓
```

Exercise 2: Logical Operators

Specifications

Write a Java program to enter four integer numbers and prints equal if all four are equal, and not equal otherwise.

Output

```
Input first number: 101
Input second number: 122
Input third number: 123
Input fourth number: 111
Numbers are not equal!
```

Exercise 3: Arithmetic Operators

Specifications

Write a Java program to add FIVE integers and display their sum.

Output

```
Input first number: 121
Input second number: 12
Input third number: 123
Input fourth number: 22
Input fourth number: 23
The sum is 301
```

Exercise 4: Arithmetic Operators

Specifications

Write a Java programs, called ***CylinderComputation*** to print the surface area, base area, and volume of a cylinder, given its radius and height (in doubles).

You should use 5 double variables called *radius*, *height*, *surfaceArea*, *baseArea* and *volume*. Take note that space (blank) is not allowed in variable names.

Output

```
Surface area = 1295.906968125
Base area = 490.8738515625
Volume = 1963.49540625
```

Problem Descriptions:

- » Write a java console program to resolve this assignment

Guidelines:

- » Create a project named **JPE.S.A301**, create packages as required that contains the above classes.

-- THE END --