Java Basics

Training Assignments

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

Hanoi, 06/2019

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

Assignment_02

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

Create a project named **"JPE.S.A201"** and a new package called **exercise1**.

Write a program called **SumAverageRunningInt** in **exercise1** to produce the sum of 1, 2, 3, ..., to 100. Store 1 and 100 in variables lowerbound and upperbound, so that we can change their values easily. Also compute and display the average.

Expected Output :

```
Average of all 100 first numbers: 50.0
```

Exercise 2

In project "**Java.S.A201**" create a new package called **exercise2**, after that create a class named **ArrayContains**:

- Enter length and elements of a string array "stringArray"
- Require to enter a string variable "sValue"
- Print "Contained" if Array contains "sValue", or "No Contain" otherwise.

Test Data:

```
stringArray = {"FTP","Fresher", "Acedemy", "2018"};
```

Expected Output

```
Check 'Fresher' in Array: Contained!
```

Exercise 3

In project "**Java.S.A201**" create a new package called **exercise3**, after that create a class named **FrequentNumber**:

- Declare an int arrray and a variable '**len**'. Ask user to enter length of Array
- Continuing to require users enter a value for an element of Array, repeating this work until Array is full or user chooses "N/n" if asked "Do you want to continue?"
- Enter an int value stored to '**value**' variable, write java code to count frequency of the value in Array, prints amount and positions.

Hints: Use do..while to enter elements of Array

Test Data:

```
int[] intArray = new int[5]; // 5       7       5       8       3
```

int value = 5;

Expected Output

Amount of frequence: 2

Indexs: 0 2

Exercise 4

In project "**Java.S.A201**" create a new package called **exercise4**, after that create a class named **ArrayReverse**:

- Initialize an integer array. Array example:

  int[] **myIntArray** = { 43, 32, 53, 23, 12, 34, 3, 12, 43, 32 };

- Write a Java code to reverse the array contents. Prints Array before and after conversion.s

Test Data:

int[] **myIntArray** = { 43, 32, 53, 23, 12, 34, 3, 12, 43, 32 };

Expected Output

Original Array: 43, 32, 53, 23, 12, 34, 3, 12, 43, 32

Reversed Array: 32, 43, 12, 3, 34, 12, 23, 53, 32, 43s

Problem Descriptions:

» Write a java console program to resolve this assignment

Guidelines:

» Create a project named **JPE.S.A201**, create packages as required that contains the above classes.

-- THE END --