**Short Assignment\_301**

**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 “**JPE.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 “**JPE.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 “**JPE.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.