**ORACLE JAVA TRAINING QUALIFEIED EXAM**

Q1. Write a Java program to check if a number is Armstrong number or not? (input 153 output true, 123 output false)

An Armstrong number of 3 digits is a number for which sum of cube of its digits are equal to number e.g. 371 is an Armstrong number because 3\*3\*3 + 7\*7\*7 + 1\*1\*1 = 371).

Q2. Write a Java program to calculate factorial of an integer number? Both iterative and recursive solution. You just need to remember formula for calculating factorial which is for

n! its n\* (n-1) \*…1.

Q3. a. Write a Java method to calculate and return the sum of the leading diagonal of the following matrix.

b. Write a Java method that will receive an array of size 2 by 2 as parameter. Transpose the elements (Change row to column and vice versa).

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