**LAB # 01**

**INTRODUCTION TO STRING POOL, LITERALS, AND WRAPPER CLASSES**

**OBJECTIVE:** To study the concepts of String Constant Pool, String literals, String immutability and Wrapper classes.

## LAB TASKS

1. Write a program that initialize five different strings using all the above mentioned ways, i.e., a) string literals
   1. new keyword

also use intern method and show string immutability.

CODE:

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OUTPUT:

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1. Write a program to convert primitive data type Double into its respective wrapper object.

CODE:

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OUTPUT:

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1. Write a program that initialize five different strings and perform the following operations.

a) Concatenate all five stings.

* 1. Convert fourth string to uppercase.
  2. Find the substring from the concatenated string from 8 to onward

CODE:

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OUTPUT:

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4.You are given two strings word1 and word2. Merge the strings by adding letters in alternating order, starting with word1. If a string is longer than the other, append the additional letters onto the end of the merged string. Return *the merged string.*

**Example:**

**Input:** word1 = "abc", word2 = "pqr"

**Output:** "apbqcr"

**Explanation:** The merged string will be merged as so:

word1: a b c word2: p q r

merged: a p b q c r

CODE:

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OUTPUT:

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5. Write a Java program to find the minimum and maximum values of Integer**,** Float**,** and Double using the respective wrapper class constants.

CODE:

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OUTPUT:

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## HOME TASKS

1. Write a JAVA program to perform Autoboxing and also implement different methods of wrapper class.

CODE:

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OUTPUT:

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1. Write a Java program to count the number of even and odd digits in a given integer using Autoboxing and Unboxing.

CODE:

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OUTPUT:

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1. Write a Java program to find the absolute value, square root, and power of a number using Math classmethods, while utilizing Autoboxing and Wrapper classes**.**

CODE:

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OUTPUT:

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1. Write a Java program to **reverse only the vowels** in a string.

CODE:

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OUTPUT:

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1. Write a Java program to **find the longest word** in a sentence.

CODE:

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OUTPUT:

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