**LAB # 01**

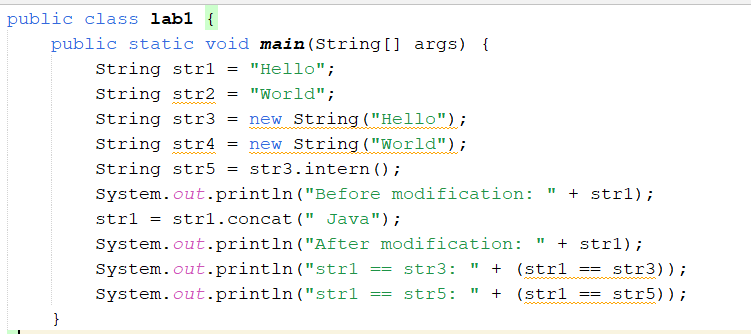
**INTRODUCTION TO STRING POOL, LITERALS, AND WRAPPER CLASSES**

**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 b) new keyword also use intern method and show string immutability.

**TASK#01:**

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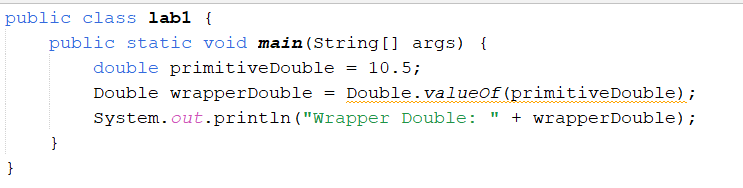
**OUTPUT:**

**A black text on a white background

Description automatically generated**

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

**TASK#02:**



**OUTPUT:**

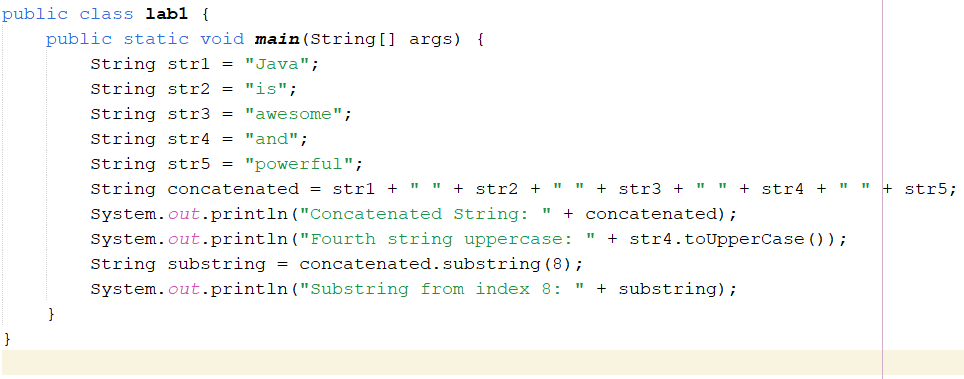
A close up of a number

Description automatically generated

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

a. Concatenate all five stings. b. Convert fourth string to uppercase. c. Find the substring from the concatenated string from 8 to onwards.

**TASK#03:**



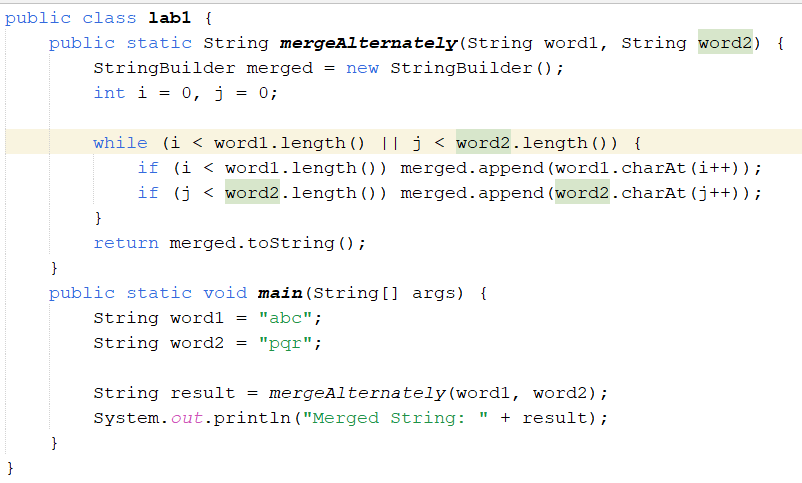
**OUTPUT:**

A close up of words

Description automatically generated

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

**TASK#04:**



**OUTPUT**:

A close up of a text

Description automatically generated

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

**TASK#05:**

A screenshot of a computer program

Description automatically generated

**OUTPUT:**

A computer screen shot of numbers

Description automatically generated

**{HOMETASK}**

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

**TASK#01:**

A computer code with text

Description automatically generated

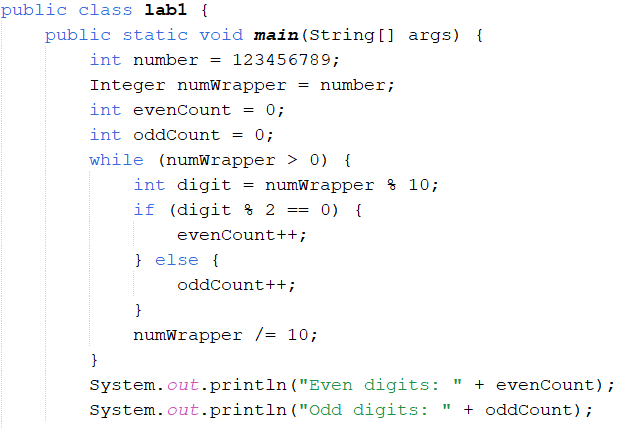
**OUTPUT:**

A number of numbers on a white background

Description automatically generated

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

**TASK #02:**



**OUTPUT:**

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

**TASK#04:**

A screenshot of a computer program

Description automatically generated

A close up of text

Description automatically generated

**OUTPUT:**



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

**TASK#05:**

A screen shot of a computer program

Description automatically generated

**Output:**

A black and white text

Description automatically generated