**Name: \_\_\_\_\_\_\_\_\_\_\_**

**Advanced Programming in Java**

**Lab Exercise 1.12.2024**

1. Write a Java program to reverse the content of a sentence (assume a single space between two words) without reversing every word.

Input a string: The quick brown fox jumps over the lazy dog  
Result: dog lazy the over jumps fox brown quick The

1. Write a Java program to accept two string and test if the second string contains the first one.

Input first string: Once in a blue moon  
Input second string: See eye to eye  
If the second string contains the first one? false

1. Write a Java program to test whether there are two integers x and y such that x2 + y2 is equal to a given positive number.

Expected Output:

Input a positive integer: 25

Is 25 sum of two square numbers? True

1. Write a Java program to find the length of last word of a given string. The string contains upper/lower-case alphabet and single empty space characters ' '.

Sample Output:

Original String: The length of last word

Length of the last word of the above string: 4

1. Write a Java program to accept a positive number and repeatedly add all its digits until the result has only one digit.

Expected Output:

Input a positive integer: 25

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