**LAB 09**

**PERMUTATION EXPERIMENT ANWERS:**

1. What happens if the input string contains duplicate characters?

Ans. The method recPermute() will consider each character of the string individually and then find out each possible combination irrespective of the duplicity of characters and hence the Output will contain **duplicate combinations.**

2. What was the advantage of using the wrapper method permute (String s)?

Ans. A wrapper method wraps another method (recPermute() method). And sin our case it adds some additional arguments, like initial values of k and acts as an entry point in the program. Hence specifying the starting position from where the permutation needs to be carried out in the wrapper.

3. Which exercise at the end of Chapter 5 outlines an iterative version of permute (String s)?

Ans. Exercise 5.2

4. Describe any discrepancies between your hypotheses and test results.

Ans. There was no discrepancy found between my hypotheses and test results.

5. What part of this lab gave you the most trouble?

Ans. Understanding the requirement of the lab as in what needs to provided in output.