IT Workshop -II (CS251)

Lab Assignment: 7

- Q-1) You have a text file named "poem.txt". Do the following sequence of steps:
 - I. Write a thread class, which should count the number of words present in the text file and display the result.
 - II. Write a thread class, which should count the number of vowels present in the text file and display the result.
 - III. Write the main method in another java class, where you should create objects of the above written two thread classes and start their execution.
- Q-2) Write a Java program, which accepts an arithmetic expression containing numbers, "+" and "-" as input. Evaluate and print the result of the expression.

Note: The expression does not contain any white spaces.

Some useful methods:

- str. replaceAll("[^0-9,]"," "): it returns a string, where all non-numeric characters have been replaced with white spaces.
- Character.isDigit(ch): returns true if ch is a digit or else false

Example: Input: 1+2+6-2+18-1 Output: 24

Home Task

Q-3) Write a Java program, which accepts an postfix expression containing numbers, "+", "-", "*" and "/" as input. Evaluate the expression.

Note: There are white spaces in between every operator and operand.

Example:

Input: 1 2 + Output: 3
Input: 1 2 3 * + 4 + Output: 11
Input: 8 5 * 7 4 2 + * + Output: 82