ITLAB-162 IMSc(Life-Sci, HealthPsy, Optometry) and IMA Economics Assignment - 5 (10 Marks)

Submission in Class - 12 April 2023

First write down the method as a sequence of steps in the Text Cell. And then start coding.

- 1. Compute the number of times a character occurs in a file. Plot a histogram of number of times each character occurs in the file.(Take the text file that was used in an earlier lab).
- 2. For the matrix M below, given input of values for a and b using the keyboard, your program should print the expressions in the matrix M, whose values are divisible by 3. Use numpy array to read the matrix given below.

$$a^{2}-b^{2}$$
 $a+b$ a/b
 $2a-b$ $a+2b$ $3a-4b$
 $a+3b$ $a-5b$ $7a+8b$

For example, if I input a = 1, b = 1 then it should print the values obtained for the expressions $a^2 - b^2$, a + 2b, 7a + 8b. Also try to print the index positions of these values.