Assignment 0: Python Tutorials

- (9) Count the number of words in a text file. Steps:
 -) Load the required Libraries

2) Read the textfile as input

3) Run a loop with counter i for each sentence is the file.

4) Increment the counter variable for each word

detected.

5) Al Last, print the final value of count once the final line of text file is parsed. (EOF)

6) Output: Total no. of words = count.

(b) Elementwise Matrix-Vector Multiplication and Calculation of Mean, Stondard Deviation and Histogram of resultant vector.

1) Load the required Libraries

2) Take input for dimensions of matrix Z(say x + y)
3) Create matrix Z and initialize it with randon

- 4) Create vector V of dimension y x 1 with normal distribution using, $\mu=2$ and standard diviation,
- 5) Calculate element mice product for each row T = 0.01.of matrix Zwit vector Voind store the value is corresponding row of vector C (Resultant vector).
- 6) Calculate the mean and stendard devation of vector (using inbuilt functions).
 - Mean = \(\frac{1}{c[i]/n} \) where n = len(c)
 - 8) Plot the histogram for vector C with bin values.