# ITLAB-162 IMSc(Life-Sci, HealthPsy, Optometry) and IMA Economics 

## Practice Questions 3 May 2023

1. Compare the stories of two writers (classical and modern) by plotting the frequency of words of different length (in the range 4 to 10). (Texts of roughly the same length of Edgar Allan Poe and J.K.Rowling are given). (The texts are taken from gutenberg.org and bookbrowse.com respectively).
(a) First ensure to remove all the special characters and numbers from the text.
(b) Write a function display_words $(k)$ in python to read lines from the text file and display those words having $k$ characters.
(c) Write a function word_freq(<length $>$ ) which takes length as the input argument and gives the number of words of that length as output.
(d) Plot the information for the two writers and visually compare the two frequency plots.
2. Find the average length of a sentence (as the number of words contained in them) in the document. Print the average lengths of a sentence of the two texts and print as output: "The average length of a sentence of the story of Edgar Allan Poe is": and similarly of J.K.Rowling.
3. Understand the usage of 'break' and 'continue' in a Python program. Solve a problem that uses these two statements.
