ITLAB-162 IMSc(Life-Sci, HealthPsy, Optometry) and IMA Economics
Assignment - 4 (10 Marks)

Submission in Class - 5 April 2023

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

1. Write a program that asks the user to enter 10 words and prints out the word that comes first alphabetically.

2. Generate a set containing each positive integer less than 1000 divisible by 15 and a second set containing each positive integer less than 1000 divisible by 21. Create a set of integers that is divisible by either value (OR) and both values(AND) and exactly one value. Print out the contents of each of these resultant sets.

3. Create a list of type dictionary with your friend's name and his/her telephone number. Ask for a friend's name to be searched and return the corresponding phone number or if it not found in the list, print "the name is not in the directory".

4. Write a program that generates 100 random numbers in the range [0, 10] and plot the frequencies of the numbers as a bar chart. Ensure to put legends on the axes as well a title for the chart.