Getting Started with Python (Hands-on 1)

Module 1 - Getting Started with Python

Problem Statement:

The computations on several operations can be a tedious task for some. Your company has assigned a task for you to minimize the effort and enhance the productivity for several of these
tasks. Simple tasks like finding the larger number among the lot, or changing the digits of a
given number, etc.

Tasks To be Performed:

1. Create a python file named Module.
a. Inside the file, define 4 methods named – addition, subtraction, multiplication, and division.
b. Each method should only accept 2 arguments and should return the result of the operation performed in each method. For e.g., addition() should return the sum of two arguments.
c. Save the Module file in .py format.

2. Open a new python file and import the Module.py file.
a. Now call the 4 methods from the Module.py file, i.e., addition(), subtraction(), multiplication(), and division().
3. From the Module file, import only the addition() and pass the arguments so that it can display the result from the method.
4. From the Module file, import only the subtraction() and pass the arguments so that it can
display the result from the method.
5. From the Module file, import both the multiplication() and division() and pass the arguments so that it can display the result from the methods.
6. Create a python if-else program to check if the given numbers are greater or not.
7. Give the length of the all of the element that is present inside the list List1
     List1 = ["Hi", 'Hello','go','cherry','orange']
8. With the help of conditional statement print all of the negative element that is present in the given List
 L= [-2, 4, -1, -6, -7]
9. Create a list of the first 50 natural numbers, and perform the following operations.
a. Count the number of elements in the list.
b. Reverse the sequence of the list.

c. Sort the list in ascending and descending order.

d. Get the index value for the element 44, and update the element with the number

10. For the given strings A = "Python Programming Language", B = "Best in the World" , perform the following operations.

a.Using indexing operations, get the text "gram" from the string A.

b. Using indexing operations, get the text "World" from the string B.

c. Change the letters in both strings to Uppercase letters.

d. Concatenate the two strings.

11. Create a list with n numbers, and using negative indexing return the list starting from the 5th index to the n-2th index.