Python Day-1 Assignment

1) Using the Python interpreter as a calculator, and typing expressions like 12 / (4 + 1).

2) Generate the following:

[a] All prime number upto the specified limit.

[b] All Armstrong number between 1 and 500

[c] Fibonacci series upto a specified limit

3) Accept a string from the user and perform the following:

[a] Count the number of VOWELS and CONSONANTS.

[b] Check if the string is a PALINDROME string or not.

4) String Processing

a. Define a string and assign it to a variable, e.g., my\_string = 'My String'

Print the contents of this variable in two ways

i)By simply typing the variable name and pressing Enter

ii)By using the print statement.

b. Try adding the string to itself using my\_string + my\_string, or multiplying it by a number, e.g., my\_string \* 3.

Notice that the strings are joined together without any spaces. How could you fix this?

5) What is the difference between the following two tests: w.isupper() and not w.islower()?

6) Implement simple calc

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1. add

2. sub

3. mul

4. div

5. go back

7) Work with all string operations in a single .py file.

8) Write a Python program to sort a string lexicographically

9) Write a Python program using range() [built-in function]

10) Do the following operations on lists:

1) Print the whole list

2) How will you print list elements one by one

3) Insert an element at the beginning of the list using method

4) Insert an element at a given position

5) Insert an element at end

6) Delete element at a given position

7) Delete an element at a given position and

Print the element

8) Delete an element by value

9) Print the length of the list.