

Optional Assignment

[Try to form the programs as generic as possible]

1. Get a string from user and print the characters one by one. For ex: if the input string is "hello" output should be 'h e l l o' one below the other.
2. Calculate the length of the string without using any in-built functions. i.e., don't use len() function. Try to calculate the length of the string using loop.
3. Get two strings from the user and create a new string by swapping the first characters in each of the string. For ex: input is: 'abc','xyz'. Required output is: 'xbc ayz'. (Hint: use slicing to do the same)
4. Get a list of strings from the user and print the longest word along with its length. For ex: sample input: ['hi', 'hello world', 'good'] output should be: **'hello world' 11**
5. Write a Python function to convert a given string to all uppercase if it contains at least 2 uppercase characters in the first 4 characters. Else convert the string to lowercase and print. For ex: if the input is 'HeLLo' output should be 'HELLO'. If the input is 'heLlo', the output should be: 'hello'