Session 3 Self Practice Assignments

1. **Write a program that accepts a sentence and calculate the number of letters and digits.**
   Suppose the following input is supplied to the program:
   hello world! 123
   Then, the output should be:
   LETTERS 10
   DIGITS 3
2. **Write a Python program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged.**
   Sample String : 'abc'
   Expected Result : 'abcing'
   Sample String : 'string'
   Expected Result : 'stringly'
3. **Write a Python function that takes a list of words and returns the length of the longest one.**
4. **Write a Python program to check if a string contains all letters of the alphabet.**
5. **Write a Python program to count the number of characters (character frequency) in a string.**
6. **Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string. If the string length is less than 2, return instead of the empty string.**
7. **Write a Python program to get a string from a given string where all occurrences of its first char have been changed to '$', except the first char itself.**
8. **Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.**
9. **Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, replace the whole 'not'...'poor' substring with 'good'. Return the resulting string.**
10. **Write a Python program to remove the n^{th} index character from a nonempty string.**
11. **Write a Python program to change a given string to a new string where the first and last chars have been exchanged.**
12. **Write a Python program to remove the characters which have odd index values of a given string.**
13. **Write a Python script that takes input from the user and displays that input back in upper and lower cases.**
14. **Write a Python program that accepts a comma separated sequence of words as input and prints the unique words in sorted form (alphanumerically)**
15. **Write a Python function to get a string made of 4 copies of the last two characters of a specified string (length must be at least 2).**
16. **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.**
17. **Write a Python program to sort a string lexicographically.**
18. **Write a Python program to remove a newline in Python.**