**Problem-1**

Write a Python program to find length of a string using loop. How to find length of a string without using in-built library function .

**Example**

**Input**

Input string: I love programming. I love CodeforWon.

**Output**

Length of string: 38

**Problem-2**

Write a Python program to find reverse of a given string.

**Example**

**Input**

Hello

**Output**

Reverse string: olleH

**Problem-3**

Write a Python program to check whether a string is palindrome or not .

Palindrome string is a special string which reads same from backward or forward such as madam, mom, eye, dad etc.

**Example**

**Input**

Input string: madam

**Output**

Palindrome string

**Problem-3**

Write a Python program to input any string from user and reverse the order of words.

**Example**

**Input**

Input string : I love learning programming at Codeforwin

**Output**

Reversed order of words:

Codeforwin at programming learning love I

**Problem-4**

Write a Python program to search all occurrences of a character in a string using loop.

**Example**

**Input**

Input string: I love programming. I love Codeforwin.

Input character to search: o

**Output**

'o' found at index: 3, 9, 23, 28, 32

**Problem-5**

Write a Python program to search all occurrences of a word in given string using loop.

**Example**

**Input**

Input string: I love programming. I love Codeforwin.

Input word to search: love

**Output**

'love' is found at index: 2

'love' is found at index: 22

**Problem-6**

Write a Python program to remove all repeated characters in a string using loops.

**Example**

**Input**

Input string: Programming in C.

**Output**

String after removing duplicate characters: Progamin C.

**Problem-7**

Write a python program to replace all occurrence of a character with another in a string using function.

**Example**

**Input**

Input string: I\_love\_learning\_at\_Codeforwin.

Input character to replace: \_

Input character to replace with: -

**Output**

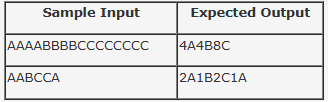
String after replacing '\_' with '-': I-love-learning-at-Codeforwin

**Problem-8**

Given a string containing uppercase characters (A-Z), compress the string using Run Length encoding. Repetition of character has to be replaced by storing the length of that run.

Write a python function which performs the run length encoding for a given String and returns the run length encoded String.

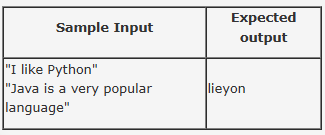
Provide different String values and test your program



**Problem-9**

Write a python program to display all the common characters between two strings. Return -1 if there are no matching characters.

Note: Ignore blank spaces if there are any. Perform case sensitive string comparison wherever necessary.



**Problem-10**

Write python function, sms\_encoding() which accepts a sentence and converts it into an abbreviated sentence to be sent as SMS and returns the abbreviated sentence.

Rules are as follows:

a. Spaces are to be retained as is

b. Each word should be encoded separately

If a word has only vowels then retain the word as is

If a word has a consonant (at least 1) then retain only those consonants

Note: Assume that the sentence would begin with a word and there will be only a single space between the words.

