

1. Write a Python program to get a string made of the first 2 and last 2 characters of a given string. Use repetition operator to multiply the string and if the string length is less than 2, return the empty string instead.

Sample String : 'w3resource'

Expected Result : 'w3ce'

Sample String : 'w3'

Expected Result : 'w3w3'

Sample String : 'w'

Expected Result : Empty String

2. Write Python program to

(a) get a string from a given string where all occurrences of its first char have been changed to '\$', except the first char itself.

Sample String : 'restart program'

Expected Result : 'resta\$t'

(b) to remove the n^{th} index character from a nonempty string.

(c) change a given string to a new string where the first and last chars have been exchanged.

(d) count the occurrences of each word in a given sentence.

(e) takes input from the user and displays that input back in upper and lower cases.

3. Python program that accepts a comma-separated sequence of words as input and prints the distinct words in sorted form (alphanumerically).

Sample Words : red, white, black, red, green, black

Expected Result : black, green, red, white, red

4. Write a function to `Eliminate_Letter(word,letter)` which takes a word and a letter as arguments and removes all the occurrences of that particular letter from the word. The function must return the remaining letters in the word.

5. Write python function named

(a) `Replace_vowels(word)`, which removes all the vowels from the given word and print the remaining letters.

(b) `modify_case(word)` which changes the case of all letters in a word and returns the new word.

(c) `get_char(word,position)` which takes a word and a number as arguments. Return the character at position.

6. A palindrome is a string that reads the same backward as forward. For example, the words dad, madam and radar are all palindromes. Read inputs dad and Dad from user and give proper comments, if the input is palindrome or not.

Note: do not use `reverse()` method

7. Asks the user to input his name and print its initials. Assuming that the user always types first name, middle name and last name and does not include any unnecessary spaces.

For example, if the user enters Ajay Kumar Garg the program should display A. K. G.

Note: Don't use split() method

8. Read the string "SHIFT" and display it in different ways as follows: Use a single loop.

SHIFT

HIFTS

IFTSH

FTSHI

TSHIF

SHIFT

9. Write a program in python that accepts a string to setup a passwords. Your entered password must meet the following requirements:

- The password must be at least eight characters long.
- It must contain at least one uppercase letter.
- It must contain at least one lowercase letter.
- It must contain at least one numeric digit.