

Assignment Title: Exploring String Functions in Python

Question 1: Reverse a String

Write a Python program that takes a user input string, reverses it, and prints the reversed string.

Question 2: Count Vowels and Consonants

Write a Python program that counts the number of vowels and consonants in a given string. Assume that the input string contains only letters (no punctuation or numbers).

Question 3: Uppercase and Lowercase Conversion

Write a Python program that takes a user input string and converts it to uppercase and lowercase. Print both the uppercase and lowercase versions of the input string.

Question 4: Replace Substring

Write a Python program that replaces all occurrences of a given substring with another substring in a user input string. Print the modified string.

Question 5: Count Substring Occurrences

Write a Python program that counts the number of occurrences of a given substring in a user input string.

Question 6: Check Palindrome

Write a Python program that checks if a user input string is a palindrome. A palindrome is a word, phrase, number, or other sequence of characters that reads the same forward and backward. Print "Palindrome" if it is, and "Not a Palindrome" if it's not.

Question 7: Extract First Name

Write a Python program that extracts the first name from a full name. Assume that the user input will be in the format "First Last."

Question 8: Find Substring Location

Write a Python program that finds the starting index of a given substring in a user input string. If the substring is not found, print "Not Found."