

2	<p>Write a Python program to compute following operations on String:</p> <ul style="list-style-type: none"> a) To display word with the longest length b) To determines the frequency of occurrence of particular character in the string c) To check whether given string is palindrome or not d) To display index of first appearance of the substring e) To count the occurrences of each word in a given string 	
	<pre> # Write a Python program to compute following operations on String: # a) To display word with the longest length # b) To determines the frequency of occurrence of particular character in the string # c) To check whether given string is palindrome or not # d) To display index of first appearance of the substring # e) To count the occurrences of each word in a given string def display_longest_word(input_string): words = input_string.split() longest_word = max(words, key=len) print(f"The longest word is: {longest_word}") def frequency_of_character(input_string, char): char_frequency = input_string.count(char) print(f"The frequency of '{char}' in the string is: {char_frequency}") def is_palindrome(input_string): reversed_string = input_string[::-1] if input_string == reversed_string: print("The string is a palindrome.") else: print("The string is not a palindrome.") def index_of_substring(input_string, substring): index = input_string.find(substring) if index != -1: print(f"The index of the first appearance of '{substring}' is: {index}") else: print(f"'{substring}' not found in the string.") def count_word_occurrences(input_string): words = input_string.split() word_count = {} for word in words: word_count[word] = word_count.get(word, 0) + 1 print("Word occurrences:") for word, count in word_count.items(): </pre>	

	<pre>print(f"{word}: {count} times") def main(): input_string = input("Enter a string: ") display_longest_word(input_string) char_to_find = input("Enter a character to find its frequency: ") frequency_of_character(input_string, char_to_find) is_palindrome(input_string) substring_to_find = input("Enter a substring to find its index: ") index_of_substring(input_string, substring_to_find) count_word_occurrences(input_string) if __name__ == "__main__": main()</pre>	
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