Problems on strings

Problem Statement 1: “Given a string, check if the string is palindrome or not.” A string is said to be palindrome if the reverse of the string is the same as the string.

Example 1:

Input: Str = “ABCDCBA”

Output: Palindrome

Explanation: String final_termwhen reversed is the same as string.

Problem Statement 2: Given a string, write a program to count the number of vowels, consonants, and spaces in that string.

Example 1:

Input: string str=” Take u forward is Awesome”

Output:

Vowels: 10

Consonants: 11

White spaces: 4

Problem Statement 3: Given a String, write a program to remove vowels from a given String.

Example 1:

Input: Str = “take u forward”

Output: tk frwrd

Explanation: All vowels are removed from the given String.

Problem Statement 4: Given a string, write a program to remove all the whitespaces from the string.

Example 1:

Input: str = “Take you forward”

Output: Takeyouforward

Explanation: After removing all the whitespaces Takeyouforward is the result

Problem Statement 5 : Write a program to remove all characters from a string except alphabets in a given string

Example 1:

Input: string str = "take12% *&u ^$#forward"

Output: takeuforward

Explanation:

Characters 1,2,%,*,&,^,$,# along with whitespaces are

removed but the order of remaining alphabets is preserved.

Problem Statement 6: Reverse a String. Write a program that reverses a given string.

Problem: Given a string, calculate the sum of numbers in a string (multiple consecutive digits are considered one number)

Example 1:

Input: string = “123xyz”

Output: 123

Example 2:

Input: string = “1xyz23”

Output: 24

Problem Statement 7: Given a string, write a program to Capitalize the first and last character of each word of that string.

Example 1:

Input: String str = "take u forward is awesome"

Output: “TakE U ForwarD IS AwesomE”

Explanation: We get the result after capitalizing the first and last character of each word of a string

Problem Statement 8: Given two strings, check if two strings are anagrams of each other or not.

Example 1:

Input: CAT, ACT

Output: true

Explanation: Since the count of every letter of both strings are equal.

Example 2:

Input: RULES, LESRT

Output: false

Explanation: Since the count of U and T is not equal in both strings.

Problem Statement 9: Given a String, find the largest word in the string.

Example 1:

Input: string s=" Google Doc"

Output: "Google"

Explanation: Google is the largest word in the given string.