

Assignment 3: String Methods

Note: You can use the inbuilt functions, but you should know the logic behind it.

3.1. WAP in Java to input a string and convert it into

i) all upper case/lower case

ii) capital case

Input:

She sells sea shells on the sea shore.

Output:

SHE SELLS SEA SHELLS ON THE SEA SHORE

She Sells Sea Shells On The Sea Shore

3.2. WAP in Java to compare two string and print the larger one.

Input: Enter first string

hello

Enter second string

hai

Output: First string is greater

3.3. WAP in Java to find all the substrings of a given string.

Input: Enter a string to find its sub-strings

shore

Output: Sub-strings of the string "shore" are

s

sh

sho

shor

shore

h

ho

hor

hore

o

or

ore

r

re

e

3.4. WAP in Java to check if two strings are anagrams or not.

Input: Enter the 2 strings to check Anagram :

Debit card

Bad credit

Output: The input strings are Anagram

3.5. WAP in Java to concatenate two strings.

Input: Enter the string1:

she

Enter the string2:

eats

Output: The resulting string is: she eats

3.6. WAP in Java to:

i) reverse a string

ii) check if it's a palindrome

ii) print its length

Input: Enter a string: malayalam

Output: Reverse string: malayalam

Is Palindrome: Yes

String Length: 9

3.7. WAP in Java to find the frequency of characters in a string and arrange them in an order.

Input: IIT Patna

Output: I-2, a-2, T-1, t-1, P-1, n-1

3.8. WAP in java to reverse the order of words in a string.

Input: Indian Institute of Technology Patna

Output: Patna Technology of Institute Indian

3.9. WAP in JAVA to take an input equally spaced chunks of String(if not then append Padding by 'J') and print it into a spiral form

Input: Number of String 3

HELLO

HI

WELCOME

After padding:

H E L L O J J

H I J J J J J

W E L C O M E

Output: HELLOJJJEMOCLEWHIJJJJ

3.10. WAP in JAVA to take an input a chunk of strings

Input: Number String 3

HELLO

HI
WELCOME

Sort the chunks of strings according to length

H I
H E L L O
W E L C O M E

Rotate Clockwise this matrix. due to gravitational force letters changes its positions

W
E
L H
C E
O L
M L H
E O I

Output: W, E, LH, CE, OL, MLH, EOI

3.11. WAP in JAVA to replace all vowels to \$ character

Input: HELLO

Output: H\$LL\$

3.12. Write a menu driven program in JAVA to perform the following task

I.) Insert a character in any position of given string.

II.) Delete a character in any position of given string.

III.) Count the number of vowels and Consonants.

3.13. Write a Java program to take an input string and exchange the first and last word, 2nd with the 2nd last word, so on. And the program would reverse the alphabets of the middle words.

Input: Hello World GFG Welcomes You

Output: You semocleW GFG dlroW Hello

assignment3

Updated 3 days ago by Mayank and [3 others](#)

followup discussions for lingering questions and comments

☒ Resolved ☐ Unresolved



Mayank 5 days ago

Hi TAS,

Good questions. Lets number the assignement questions as Assignment_Number.Serial_number. So for this assignment it would be 3.1, 3.2 and so on. The same practice would be continued later on also.

Also keep basic formatting like:

3.11. WAP in JAVA to replace all vowels to \$ character

Input: HELLO

Output: H\$LL\$

Once done, make the visibility public

☐ Resolved ☐ Unresolved



Anonymous 1 day ago

Sir can you please elaborate Q 3.13.



Mayank 1 day ago @Pranay Kumar Saha @mauajama @Tirthankar Ghosal @Aakash @Suryakanta Panda



Pranay Kumar Saha 1 day ago Only Last and the First word you have to swap and rest all word you have to reverse as well as swap the position of the word

Input: Have a great day

Output: day taerg a Have

☒ Resolved ☐ Unresolved



Gaurav Kataria 12 hours ago

Sir in 3.7 how is the order determined when the words have same frequency ?



Pranay Kumar Saha 12 hours ago According to the frequency, you have to sort. If the frequency is the same, then sort according to an occurrence of a character in a string.

In above example 'l' character come first



Gaurav Kataria 11 hours ago In the example given above t is placed before P , but in string it comes after P ??

