

Day 20

Lab Assignments

1. WAP to delete n characters from a given position of a given string.
Input: Enter a string: University
Enter the number of characters to delete: 5
Enter the position to delete: 3
Output: After deletion the string is: Unity
2. WAP to capitalize the first letter of each word in a given sentence. Assume that words are separated by spaces.
Input: Enter a string: kalinga institute of technology
Output: Kalinga Institute Of Technology
3. WAP to print a given string in an alphabetical order.
Input: Enter a string: INDIA
Output: After sorting the string in alphabetical order is ADIIN
4. WAP to input names of n persons and arrange them in alphabetic order.
Input: Enter the value of n : 5
Enter 5 names:
Raj
Ajay
Bikram
Prakash
John
Output: After sorting the names are:
Ajay
Bikram
John
Prakash
Raj
5. WAP to search a pattern string in a text string.
Input: Enter the text string: India is great
Enter the pattern string: is
Output: Pattern found at index 6
6. Write a C program to check if two strings are anagrams. An anagram is a word or phrase formed by rearranging the letters of another word or phrase.
Input 1: Enter the first string: listen
Enter the second string: silent
Output 1: Given strings are anagrams
Input 2: Enter the first string: speak
Enter the second string: silent
Output 2: Given strings are not anagrams.

Home Assignments

1. Write a program to count the number of vowels, consonants, total number of characters and number of words present in a string.
Input: Enter a string: Kalinga Institute of Technology
Output: Number of vowels: 11
Number of consonants: 20
Number of characters: 31
Number of words: 4

2. Write a C program to remove all consecutive duplicate characters from a given string.
Input: Enter a string: Sppeakk Loudlly
Output: After removing duplicate characters the string is: Speak Loudly
3. Write a C program to remove all leading and trailing spaces from a given string, if any.
Input: Enter a string: India is great
Output: After removing leading and trailing spaces the string is: India is great
4. WAP Develop the following user defined function and test it by writing appropriate main function:
int MatchAny(char s1[], char s2[]) : It takes two string arguments and it returns 1 if s2 is a substring of s1, returns 0 if both s1 and s2 are equal, otherwise, returns -1. Do not use any standard library functions.
Input 1: Enter the first string: Indian
Enter the second string: India
Output 1: Second string is a sub-string of first string.
Input 2: Enter the first string: India
Enter the second string: India
Output 2: Both strings are same.
5. WAP to replace all occurrences of a sub-string in a given string with a new one.
Input: Enter a string: Raj and Shyam were good friends. Now, Shyam has become the enemy of Raj.
Enter the sub-string to be replaced: Shyam
Enter the new sub-string: Ravi
Output: Raj and Ravi were good friends. Now, Ravi has become the enemy of Raj.
6. Write a C program to convert a string of digits into an integer value.
Input: Enter a number as a string of digits: 125
Output: Entered number is 125