**String API**

**String API : lastIndexOf() - Illustration**

Write a program to illustrate the use of the method lastIndexOf() defined in the string API.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output:**

Enter the string

**Amphisoft Technologies is a product company**

Enter the string to be searched

**is**

The index of last occurence of "is" is 23

Enter the index limit

**20**

First occurence of "is" from 20th index backwards is 4

**String API : startsWith() : Illustration**

Write a program to illustrate the use of the method startsWith() defined in the string API.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output 1:**

Enter the string

**Ampphisoft**

Enter the start string

**Amphi**

"Ampphisoft" does not start with "Amphi"

**Sample Input and Output 2:**

Enter the string

**Amphisoft**

Enter the start string

**Amphi**

"Amphisoft" starts with "Amphi"

**String API : endsWith() : Illustration**

Write a program to illustrate the use of the method endsWith() defined in the string API.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output 1:**

Enter the string

**Ampphisoft**

Enter the end string

**softi**

"Ampphisoft" does not end with "softi"

**Sample Input and Output 2:**

Enter the string

**Amphisoft**

Enter the end string

**soft**

"Amphisoft" ends with "soft"

**String API : split() : Illustration**

This program is to illustrate the use of the method split() defined in the string API.

Write a program to split a string based on spaces (There may be multiple spaces too) and returns the tokens in the form of an array.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**Indiasoft Technologies is             a                  private     organization**

The words in the string are

Indiasoft

Technologies

is

a

private

organization

**String API : replace() : Illustration**

This program is to illustrate the use of the method replace() defined in the string API.

Two companies enter into a Marketing Agreement and they prepare an Agreement Draft. After that one of the companies changes its name. The name changes need to be made in the Agreement Draft as well. Write a program to perform the name changes in the agreement draft.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the content of the document

**ITT is a private organisation. ITT is a product based company. DBox is a ITT product**

Enter the old name of the company

**ITT**

Enter the new name of the company

**TTT**

The content of the modified document is

TTT is a private organisation. TTT is a product based company. TTT is a Amphisoft product

**Removing multiple spaces**

Write a program to remove multiple spaces in a string.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**Java             is                           an                 Object Oriented Prog Language**

The processed string is Java is an Object Oriented Prog Language

**Display String Vertically**

Write a program to print the input string vertically both forwards and backwards.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**Amphisoft Technologies**

The string printed vertically forwards and backwards is

A s

m e

p i

h g

i o

s l

o o

f n

t h

  c

T e

e T

c

h t

n f

o o

l s

o i

g h

i p

e m

s A

**Adjacent characters**

Given a string, write a program to compute a new string where identical chars that are adjacent in the original string are separated from each other by a "\*"

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**hello**

The processed string is hel\*lo

**Move Lowercase x**

Given a string, write a program to compute a new string where all the lowercase 'x' chars have been moved to the end of the string.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**Excellent AXE**

The processed string is Ecellent AXEx

**Capitalize String**

To "capitalize" a string means to change the first letter of each word in the string to upper case (if it is not already upper case). For example, a capitalized version of "Now is the time to act!" is "Now Is The Time To Act!". Write a program to print the capitalized version of the input string.

**Input and Output Format:**

Refer sample input and output for formatting specifications.

All text in bold corresponds to input and the rest corresponds to output.

**Sample Input and Output :**

Enter the string

**Java is an object oriented programming language**

Capitalized version:

Java Is An Object Oriented Programming Language