

## Python String Exercises

**1. Write a Python program to calculate the length of a string.**

***Sample Output***

Tutor Joes

Length of String = 10

**2. Write a Python program to count the number of characters (character frequency) in a string.**

***Sample Output***

tutorjoes

{'t': 2, 'u': 1, 'o': 2, 'r': 1, 'j': 1, 'e': 1, 's': 1}

**3. Write a Python program to get a string from a given string where all occurrences of its first char have been changed to '@', except the first char itself.**

***Sample Output***

Given String = tutor joes

After String = tu@or joes

**4. Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.**

***Sample Output***

Before Swap = abc xyz

After Swap = xyc abz

**5. Write a Python program to remove the nth index character from a nonempty string.**

***Sample Output***

Before Remove = Tutor Joes

Remove character = t

After Remove = Tuor Joes

**6. Write a Python program to change a given string to a new string where the first and last chars have been exchanged**

***Sample Output***

Before Exchange = Python

After Exchange = nythoP

**7. Write a Python program to remove the characters which have odd index values of a given string**

***Sample Output***

String = Computer Education

Remove Odd Index Char = Cmue dcto

**8. Write a Python program to count the occurrences of each word in a given sentence**

***Sample Output***

string = To change the overall look your document. To change the look available in the gallery

{ 'To': 2, 'change': 2, 'the': 3, 'overall': 1, 'look': 2, 'your': 1, 'document.': 1, 'available': 1, 'in': 1, 'gallery': 1 }

**9. Write a Python script that takes input from the user and displays that input back in upper and lower cases.**

***Sample Output***

Enter the String = Tutor Joes

Uppercase = TUTOR JOES

Lowercase = tutor joes

**10. Write a Python function to reverses a string if it's length is a multiple of 4.**

***Sample Output***

Enter the String = Computer

If the length is a multiple of 4 = retupmoC

Enter the String = Science

If the length is not a multiple of 4 = Science

**11. Write a Python function to convert a given string to all uppercase if it contains at least 2 uppercase characters in the first 4 characters.**

***Sample Output***

Enter the String = ComPuTeR

Check if there are at least 2 uppercase letters in the first 4 characters = COMPUTER

Enter the String = Computer

Check if does not contain at least 2 uppercase letters in the first 4 characters = Computer

**12. Write a Python program to sort a string lexicographically.**

***Sample Output***

Enter the String = Tutor

['o', 'r', 'T', 't', 'u']

**13. Write a Python program to remove a newline in Python.**

***Sample Output***

String = "\nTutor \nJoes \nComputer \nEducation\n"

Before Remove NewLine(\n)

Tutor

Joes

Computer

Education

After Remove NewLine(\n) = Tutor Joes Computer Education

**14. Write a Python program to check whether a string starts with specified characters.**

***Sample Output***

Tutor Joes Computer Education

Prefix to check = Tu

Check if the input string starts with the prefix = True

### **15. Write a Python program to display formatted text (width=35,70) as output.**

#### ***Sample Output***

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications. Python is a powerful general-purpose programming language.

#### **Formatted Text (Width 35) :**

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications.  
Python is a powerful general-purpose programming language.

#### **Formatted Text (Width 70) :**

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications. Python is a powerful general-purpose programming language.

### **16. Write a Python program to remove existing indentation from all of the lines in a given text.**

#### ***Sample Output***

#### **Original text :**

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications. Python is a powerful general-purpose programming language.

#### **Dedented text :**

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications. Python is a powerful general-purpose programming language.

### **17. Write a Python program to add a prefix text to all of the lines in a string.**

#### ***Sample Output***

**Text :**

Python is an interpreted, object-oriented, high-level programming language that can be used for a wide variety of applications. Python is a powerful general-purpose programming language.

Prefix to add to each line = \*

**Display the Result :**

- \* Python is an interpreted, object-oriented, high-level programming language
- \* that can be used for a wide variety of applications. Python is a powerful
- \* general-purpose programming language.