

1. Write a Python program to calculate the length of a string. [Go to the editor](#)

[Click me to see the sample solution](#)

2. Write a Python program to count the number of characters (character frequency) in a string. [Go to the editor](#)

Sample String : google.com'

Expected Result : {'g': 2, 'o': 3, 'l': 1, 'e': 1, '.': 1, 'c': 1, 'm': 1}

[Click me to see the sample solution](#)

3. Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string. If the string length is less than 2, return instead of the empty string. [Go to the editor](#)

Sample String : 'w3resource'

Expected Result : 'w3ce'

Sample String : 'w3'

Expected Result : 'w3w3'

Sample String : ' w'

Expected Result : Empty String

[Click me to see the sample solution](#)

4. 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.

[Go to the editor](#)

Sample String : 'restart'

Expected Result : 'resta\$t'

[Click me to see the sample solution](#)

5. 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. [Go to the editor](#)

Sample String : 'abc', 'xyz'

Expected Result : 'xyc abz'

[Click me to see the sample solution](#)

6. Write a Python program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged. [Go to the editor](#)

Sample String : 'abc'

Expected Result : 'abcing'

Sample String : 'string'

Expected Result : 'stringly'

[Click me to see the sample solution](#)

7. Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, if 'not' follows the 'poor', replace the whole 'not'...'poor' substring with 'good'. Return the resulting string. [Go to the editor](#)

Sample String : 'The lyrics is not that poor!'

'The lyrics is poor!'

Expected Result : 'The lyrics is good!'

'The lyrics is poor!'

[Click me to see the sample solution](#)

8. Write a Python function that takes a list of words and returns the longest word and the length of the longest one. [Go to the editor](#)

Sample Output:

Longest word: Exercises

Length of the longest word: 9

[Click me to see the sample solution](#)

9. Write a Python program to remove the n^{th} index character from a nonempty string. [Go to the editor](#)

[Click me to see the sample solution](#)

10. Write a Python program to change a given string to a new string where the first and last chars have been exchanged. [Go to the editor](#)

[Click me to see the sample solution](#)

11. Write a Python program to remove the characters which have odd index values of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

12. Write a Python program to count the occurrences of each word in a given sentence. [Go to the editor](#)

[Click me to see the sample solution](#)

13. Write a Python script that takes input from the user and displays that input back in upper and lower cases. [Go to the editor](#)

[Click me to see the sample solution](#)

14. Write a Python program that accepts a comma separated sequence of words as input and prints the unique words in sorted form (alphanumerically). [Go to the editor](#)

Sample Words : red, white, black, red, green, black

Expected Result : black, green, red, white,red

[Click me to see the sample solution](#)

15. Write a Python function to create the HTML string with tags around the word(s). [Go to the editor](#)

Sample function and result :

add_tags('i', 'Python') -> '<i>Python</i>'

add_tags('b', 'Python Tutorial') -> 'Python Tutorial '

[Click me to see the sample solution](#)

16. Write a Python function to insert a string in the middle of a string. [Go to the editor](#)

Sample function and result :

```
insert_sting_middle('[]]<>>', 'Python') -> [[Python]]
```

```
insert_sting_middle('{}', 'PHP') -> {{PHP}}
```

[Click me to see the sample solution](#)

17. Write a Python function to get a string made of 4 copies of the last two characters of a specified string (length must be at least 2). [Go to the editor](#)

Sample function and result :

```
insert_end('Python') -> onononon
```

```
insert_end('Exercises') -> eseseses
```

[Click me to see the sample solution](#)

18. Write a Python function to get a string made of its first three characters of a specified string. If the length of the string is less than 3 then return the original string. [Go to the editor](#)

Sample function and result :

```
first_three('ipy') -> ipy
```

```
first_three('python') -> pyt
```

[Click me to see the sample solution](#)

19. Write a Python program to get the last part of a string before a specified character. [Go to the editor](#)

<https://www.w3resource.com/python-exercises>

<https://www.w3resource.com/python>

[Click me to see the sample solution](#)

20. Write a Python function to reverse a string if its length is a multiple of 4. [Go to the editor](#)

[Click me to see the sample solution](#)

21. 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. [Go to the editor](#)

[Click me to see the sample solution](#)

22. Write a Python program to sort a string lexicographically. [Go to the editor](#)

[Click me to see the sample solution](#)

23. Write a Python program to remove a newline in Python. [Go to the editor](#)

[Click me to see the sample solution](#)

24. Write a Python program to check whether a string starts with specified characters. [Go to the editor](#)

[Click me to see the sample solution](#)

25. Write a Python program to create a Caesar encryption. [Go to the editor](#)

Note : In cryptography, a Caesar cipher, also known as Caesar's cipher, the shift cipher, Caesar's code or Caesar shift, is one of the simplest and most widely known encryption techniques. It is a type of substitution cipher in which each letter in the plaintext is replaced by a letter some fixed number of positions down the alphabet. For example, with a left shift of 3, D would be replaced by A, E would become B, and so on. The method is named after Julius Caesar, who used it in his private correspondence.

[Click me to see the sample solution](#)

26. Write a Python program to display formatted text (width=50) as output. [Go to the editor](#)

[Click me to see the sample solution](#)

27. Write a Python program to remove existing indentation from all of the lines in a given text. [Go to the editor](#)

[Click me to see the sample solution](#)

28. Write a Python program to add a prefix text to all of the lines in a string. [Go to the editor](#)

[Click me to see the sample solution](#)

29. Write a Python program to set the indentation of the first line. [Go to the editor](#)

[Click me to see the sample solution](#)

30. Write a Python program to print the following floating numbers upto 2 decimal places. [Go to the editor](#)

[Click me to see the sample solution](#)

31. Write a Python program to print the following floating numbers upto 2 decimal places with a sign. [Go to the editor](#)

[Click me to see the sample solution](#)

32. Write a Python program to print the following floating numbers with no decimal places. [Go to the editor](#)

[Click me to see the sample solution](#)

33. Write a Python program to print the following integers with zeros on the left of specified width. [Go to the editor](#)

[Click me to see the sample solution](#)

34. Write a Python program to print the following integers with '*' on the right of specified width. [Go to the editor](#)

[Click me to see the sample solution](#)

35. Write a Python program to display a number with a comma separator. [Go to the editor](#)

[Click me to see the sample solution](#)

36. Write a Python program to format a number with a percentage. [Go to the editor](#)

[Click me to see the sample solution](#)

37. Write a Python program to display a number in left, right and center aligned of width 10. [Go to the editor](#)

[Click me to see the sample solution](#)

38. Write a Python program to count occurrences of a substring in a string. [Go to the editor](#)

[Click me to see the sample solution](#)

39. Write a Python program to reverse a string. [Go to the editor](#)

[Click me to see the sample solution](#)

40. Write a Python program to reverse words in a string. [Go to the editor](#)

[Click me to see the sample solution](#)

41. Write a Python program to strip a set of characters from a string. [Go to the editor](#)

[Click me to see the sample solution](#)

42. Write a Python program to count repeated characters in a string. [Go to the editor](#)

Sample string: 'thequickbrownfoxjumpsoverthelazydog'

Expected output :

o 4

e 3

u 2

h 2

r 2

t 2

[Click me to see the sample solution](#)

43. Write a Python program to print the square and cube symbol in the area of a rectangle and volume of a cylinder. [Go to the editor](#)

Sample output:

The area of the rectangle is 1256.66cm²

The volume of the cylinder is 1254.725cm³

[Click me to see the sample solution](#)

44. Write a Python program to print the index of the character in a string. [Go to the editor](#)

Sample string: w3resource

Expected output:

Current character w position at 0

Current character 3 position at 1

Current character r position at 2

Current character c position at 8

Current character e position at 9

[Click me to see the sample solution](#)

45. Write a Python program to check if a string contains all letters of the alphabet. [Go to the editor](#)

[Click me to see the sample solution](#)

46. Write a Python program to convert a string in a list. [Go to the editor](#)

[Click me to see the sample solution](#)

47. Write a Python program to lowercase first n characters in a string. [Go to the editor](#)

[Click me to see the sample solution](#)

48. Write a Python program to swap comma and dot in a string. [Go to the editor](#)

Sample string: "32.054,23"

Expected Output: "32,054.23"

[Click me to see the sample solution](#)

49. Write a Python program to count and display the vowels of a given text. [Go to the editor](#)

[Click me to see the sample solution](#)

50. Write a Python program to split a string on the last occurrence of the delimiter. [Go to the editor](#)

[Click me to see the sample solution](#)

51. Write a Python program to find the first non-repeating character in given string. [Go to the editor](#)

[Click me to see the sample solution](#)

52. Write a Python program to print all permutations with given repetition number of characters of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

53. Write a Python program to find the first repeated character in a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

54. Write a Python program to find the first repeated character of a given string where the index of first occurrence is smallest. [Go to the editor](#)

[Click me to see the sample solution](#)

55. Write a Python program to find the first repeated word in a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

56. Write a Python program to find the second most repeated word in a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

57. Write a Python program to remove spaces from a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

58. Write a Python program to move spaces to the front of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

59. Write a Python program to find the maximum occurring character in a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

60. Write a Python program to capitalize first and last letters of each word of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

61. Write a Python program to remove duplicate characters of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

62. Write a Python program to compute sum of digits of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

63. Write a Python program to remove leading zeros from an IP address. [Go to the editor](#)

[Click me to see the sample solution](#)

64. Write a Python program to find maximum length of consecutive 0's in a given binary string. [Go to the editor](#)

[Click me to see the sample solution](#)

65. Write a Python program to find all the common characters in lexicographical order from two given lower case strings. If there are no common letters print "No common characters". [Go to the editor](#)

[Click me to see the sample solution](#)

66. Write a Python program to make two given strings (lower case, may or may not be of the same length) anagrams removing any characters from any of the strings. [Go to the editor](#)

[Click me to see the sample solution](#)

67. Write a Python program to remove all consecutive duplicates of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

68. Write a Python program to create two strings from a given string. Create the first string using those character which occurs only once and create the second string which consists of multi-time occurring characters in the said string. [Go to the editor](#)

[Click me to see the sample solution](#)

69. Write a Python program to find the longest common sub-string from two given strings. [Go to the editor](#)

[Click me to see the sample solution](#)

70. Write a Python program to create a string from two given strings concatenating uncommon characters of the said strings. [Go to the editor](#)

[Click me to see the sample solution](#)

71. Write a Python program to move all spaces to the front of a given string in single traversal. [Go to the editor](#)

[Click me to see the sample solution](#)

72. Write a Python code to remove all characters except a specified character in a given string. [Go to the editor](#)

Original string

Python Exercises

Remove all characters except P in the said string:

P

Original string

google

Remove all characters except g in the said string:

gg

Original string

exercises

Remove all characters except e in the said string:

eee

[Click me to see the sample solution](#)

73. Write a Python program to count Uppercase, Lowercase, special character and numeric values in a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

74. Write a Python program to find the minimum window in a given string which will contain all the characters of another given string. [Go to the editor](#)

Example 1

Input : str1 = " PRWSOERIUSFK "

str2 = " OSU "

Output: Minimum window is "OERIUS"

[Click me to see the sample solution](#)

75. Write a Python program to find smallest window that contains all characters of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

76. Write a Python program to count number of substrings from a given string of lowercase alphabets with exactly k distinct (given) characters. [Go to the editor](#)

[Click me to see the sample solution](#)

77. Write a Python program to count number of non-empty substrings of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

78. Write a Python program to count characters at same position in a given string (lower and uppercase characters) as in English alphabet. [Go to the editor](#)

[Click me to see the sample solution](#)

79. Write a Python program to find smallest and largest word in a given string.

[Go to the editor](#)

[Click me to see the sample solution](#)

80. Write a Python program to count number of substrings with same first and last characters of a given string. [Go to the editor](#)

[Click me to see the sample solution](#)

81. Write a Python program to find the index of a given string at which a given substring starts. If the substring is not found in the given string return 'Not found'.

[Go to the editor](#)

[Click me to see the sample solution](#)

82. Write a Python program to wrap a given string into a paragraph of given width. [Go to the editor](#)

Sample Output:

Input a string: The quick brown fox.

Input the width of the paragraph: 10

Result:

The quick

brown fox.

[Click me to see the sample solution](#)

83. Write a Python program to print four values decimal, octal, hexadecimal (capitalized), binary in a single line of a given integer. [Go to the editor](#)

Sample Output:

Input an integer: 25

Decimal Octal Hexadecimal (capitalized), Binary

25 31 19 11001

[Click me to see the sample solution](#)

84. Write a Python program to swap cases of a given string. [Go to the editor](#)

Sample Output:

pYTHON eXERCISES

jAVA

nUMpY

[Click me to see the sample solution](#)

85. Write a Python program to convert a given Bytearray to Hexadecimal string.

[Go to the editor](#)

Sample Output:

Original Bytearray :

[111, 12, 45, 67, 109]

Hexadecimal string:

6f0c2d436d

[Click me to see the sample solution](#)

86. Write a Python program to delete all occurrences of a specified character in a given string. [Go to the editor](#)

Sample Output:

Original string:

Delete all occurrences of a specified character in a given string

Modified string:

Delete ll occurrences of specified chrcter in given string

[Click me to see the sample solution](#)

87. Write a Python program find the common values that appear in two given strings. [Go to the editor](#)

Sample Output:

Original strings:

Python3

Python2.7

Intersection of two said String:

Python

[Click me to see the sample solution](#)

88. Write a Python program to check whether a given string contains a capital letter, a lower case letter, a number and a minimum length. [Go to the editor](#)

Sample Output:

Input the string: W3resource

['Valid string.']

[Click me to see the sample solution](#)

89. Write a Python program to remove unwanted characters from a given string. [Go to the editor](#)

Sample Output:

Original String : Pyth*^on Exercis^es

After removing unwanted characters:

Python Exercises

Original String : A%^!B#*CD

After removing unwanted characters:

ABCD

[Click me to see the sample solution](#)

90. Write a Python program to remove duplicate words from a given string. [Go to the editor](#)

Sample Output:

Original String:

Python Exercises Practice Solution Exercises

After removing duplicate words from the said string:

Python Exercises Practice Solution

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