

Python String Methods: Formatting & f-Strings Author: Madhu Dadi Tags: python Source: <https://madhudadi.in/blog/p>

[code block]String literal assignment and printing with double quotes in PythonExplanation- The code assigns a str

Accessing the last character of a string using negative indexing in PythonExplanation- Negative indexing allows ac

- The variable `s` is assigned the string 'hello world'. - The slicing operation `s[2:]` retrieves the substring starting from

- This technique is useful for manipulating strings by removing unwanted characters from the end. [code block]Output

[code block]This code snippet retrieves the last five characters from a string variable s.Explanation- The code uses

Explanation- The variable s is initialized with the string 'hello world'. - The code attempts to change the first character

- The del statement is used to attempt to delete a slice of the string from index -1 to -5.- However, negative slicing in

- The output will be MadhuMadhuMadhuMadhuMadhu, concatenating the string without any spaces. - This technique

Output[code block]This code snippet demonstrates case-sensitive string comparison in Python.Explanation- The co

Explanation- The code uses the greater-than operator (>) to compare the strings 'Pune' and 'Mumbai'. - String comp

- The AND operator returns the last evaluated operand when all previous operands are truthy, so it returns 'world' -

when the result can be determined from the first- The result of "" and 'world' is "" (the empty string) rather than 'world'

falsy. - Strings that are empty (e.g., "") would evaluate to True when negated with not.[code block]Output[code block]

This code snippet demonstrates a loop that prints a specific string for each character in a given string. Explanation -

- The expression checks if the character 'd' is not present in the string 'Delhi'. - It evaluates to a boolean value: True

string 'hello world'. - It evaluates each character in the string based on its ASCII representation. - In this case, the f

Output[code block]Capitalize / Title / Upper / Lower / SwapcaseThis code snippet demonstrates how to capitalize the

Convert a string to uppercase using Python's built-in method.Explanation- The upper() method is called on a string

[code block]Output[code block]Count / Find / IndexCounting occurrences of a substring in a string using Python's c

Output[code block]This code snippet demonstrates how to locate a substring within a string in Python.Explanation-

- The find() method is called on the string 'my name is madhu'. - It searches for the substring 'x' within the main string.

errors.`Output``endswith / startswith`This code checks if a string ends with a specified substring

[code block]Python string startswith method checks if a string begins with a specified prefixcharacterExplanation- T

[code block]FormatThis code snippet demonstrates how to format strings using the format method inPython.Explan

This code checks if the string contains only alphanumeric characters. Explanation- The method `isalnum()` is called o

[code block]Output[code block]This code checks if the string contains only alphabetic characters.Explanation- The

Explanation- The method `isdigit()` is called on the string `'123'`. - It returns `True` if all characters in the string are digits.

names in Python.`Output`This code checks if the string 'firstname' is a valid Python identifier

[code block]Split / JoinThis code snippet splits a string into a list of words.Explanation- The split() method is called

- The `join()` method is called on a string containing a single space (" "), which serves as the separator. - The method

substring. - In this case, the substring 'madhu' is replaced with 'dadi'. - The method returns a new string with the sp

- The result of this operation will be the string 'Madhu' without any extra spaces. - This method is useful for cleaning

Output[code block]Extracting the username from an email address using PythonExplanation- The code prompts the

Python script to calculate character or substring occurrence frequency in user inputtextExplanation- The code prom

[code block]This Python code checks if a user-input string is a palindrome.Explanation- The program prompts the u

Explanation- The program prompts the user to input a string and initializes an empty list L and a temporary string te

- A string `digits` containing all possible digit characters is defined for easy access during conversion. - An empty string

This code generates a pyramid pattern of asterisks followed by an inverted pyramid pattern. Explanation- The user i

- The rows variable is decremented in each iteration to reduce the number of leadingspaces for the next row.[code

n will be provided by the user This code calculates a mathematical series involving powers of x and displays these

[code block]Output[code block]Problem 7 - Find the sum of the series upto n terms. Write a program to calculate the

Output:[code block]This code generates all possible combinations of four nested loops with specified ranges. Explain

Output[code block]Problem 10: Write a program that will take 2 numbers as input and prints the LCM andHCF of th

each word.Explanation- The input string is defined as 'Data science mentorship program'. - An empty string res is i

Problem 13: Given string contains a combination of the lower and upper case letters. Write a program to arrange the

[code block]This code calculates the sum and average of all digits in a given string.Explanation- Initializes a string

Output[code block]Problem 16: Check whether the string is Symmetrical.Statement: Given a string. the task is to ch

Statement: We are given a string and we need to reverse words of a given string.Example 1:Input:[code block]Output:

Problem 18: Find uncommon words from two Strings.Statement: Given two sentences as strings A and B. The task

Statement: Find a location of a word in a given sentence.Example 1:Input:[code block]Output:[code block]Note- Do

- An empty string `res` is initialized to store unique characters. - The code iterates through each character `i` in the string.