

Python Functions: Complete Practical Guide Author: Madhu Dadi Tags: python Source: <https://madhudadi.in/blog/po>

Output[code block]Retrieve the documentation string for the iseven function in PythonExplanation- The code acces

2 Point of views Function to Determine if a Given Integer is Even or Odd Explanation- Defines a function iseven that

is 2. - The code likely computes 2 raised to a certain exponent, although the exponent is not specified in the snippet.

global variables.[code block]Output[code block]Understanding the Use of Positional Arguments in a Python Function

[code block]Output[code block]args and kwargs are special Python keywords that are used to pass

Explanation- The function multiply takes three parameters: a, b, and c. - It calculates the product of these three parameters.

[code block] Demonstrating the usage of a multiply function with varying arguments in Python Explanation- The code

- The print function is used to output the result of the multiply function. - The multiply function takes a variable number of arguments.

[code block]Output[code block]Python function demonstrating variable keyword arguments and dictionary iteration

Points to remember while using args and kwargs- order of the arguments matter(normal - args - kwargs)- The word

Understanding the interaction between global and local variables in Python functions Explanation- The function g(y)

This Python function demonstrates variable scope and modification within a function. Explanation- The function f(y)

- The outer function `f` is defined, which contains another function `g` inside it. - The inner function `g` prints a message

This code snippet demonstrates the invocation of a function in Python. Explanation- The code calls a function name

Understanding nested function behavior and variable scope in Python Explanation- The function  $g(x)$  takes an integ

[code block]This code snippet demonstrates variable reassignment and function referencing in Python. Explanation-

- The output will be 9, representing the square of the input number. - Ensure that the square function is defined els

Explanation- A list L is created containing integers and a function reference named square. - The list is printed, dis

Explanation- The function  $f()$  defines a nested function  $x(a, b)$  that takes two parameters and returns their sum. - W

- The code defines two functions where funca prints a message and funcb takes anotherfunction as parameter- fun

[code block]Output[code block]This code defines a lambda function to sum two numbers and prints the result.Expla

Python.[code block]Output[code block]This code defines a lambda function to determine if a number is even or odd

- The list L contains integers from 1 to 5, and the transform function is called withsquare to compute their squares.

without the need for explicit loops.`block`Output`block`This code snippet demonstrates how to apply a fu

Output[code block]Extracting gender information from a list of user dictionaries in PythonExplanation- The code de

[code block]This code filters a list to identify elements greater than five using a lambda function.Explanation- Utilize

This code checks if the letter 'a' is present in each fruit name from a list.Explanation- Utilizes the map function to ap

Explanation- Utilizes the filter function to apply a condition to each element in the list. - The lambda function defines

- The result of the reduction is the smallest number in the list, which is 4. - This approach is a concise way to perform

Problem-2: Write a Python function that accepts a hyphen-separated sequence of words as a parameter and returns

and uppercase characters- It iterates through each character in the string and uses `islower()` and `isupper()` methods

A Perfect number is a number that is half the sum of all of its positive divisors(including itself).Example :`block`

input dictionaries. - The provided dictionaries dic1, dic2, and dic3 are merged by calling mergedict, resulting in a single

Explanation- The function histogram takes a list of numbers L as input and calculates the minimum and maximum b

Output[code block]Problem-10:Write a python program that receives a list of strings and performs bag ofword oper

- The result is a new list containing the sums of the corresponding elements from L1,L2, and L3, which would be [1

Problem-13 Using filter() and list() functions and .lower() method filter all the vowels in a given string. This code filter

[code block]Problem 15- A dictionary contains following information about 5 employees:- First name- Last name- A

[code block]---References- Python Official Documentation â The Python Software Foundation- Python Built-in Fun