

Course  
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Test Series

Self-Made Assignment - Python

Function Arguments and Types in Python

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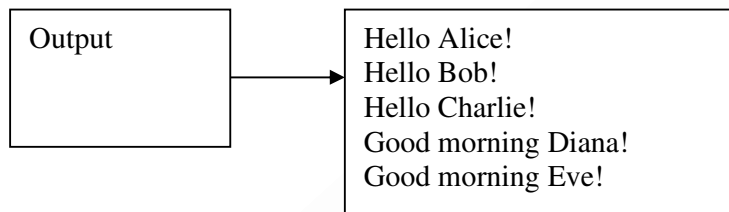
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Ques 1:-Write a function greet\_multiple(\*names, message="Hello") that greets multiple people with the same message.

Instructions:-

1. Define a function named greet\_multiple with two parameters:
2. \*names to accept any number of names (positional arguments).
3. message="Hello" to accept an optional keyword argument with a default value.
4. Inside the function iterate over each name in names, and print a greeting using the message.
5. Then call the function a few times:
6. Once with several names and using the default message.
7. Once with several names and providing a custom message keyword argument.



Ques 2:-Write a function binary\_search(lst, target) that assumes lst is sorted and returns the index of target if found, otherwise -1.

Instructions:-

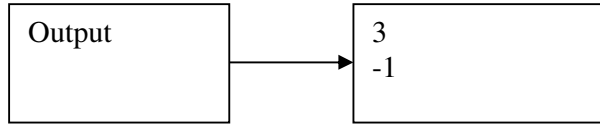
1. Ensure the list lst is sorted (in ascending order).
2. Define a function binary\_search(lst, target) that takes a sorted list and a target value.
3. Use two pointers (e.g., low and high) initially set to the start and end of the list.
4. While low <= high:
5. Compute the middle index: mid = (low + high) // 2.
6. If lst[mid] == target, return mid.
7. If lst[mid] < target, set low = mid + 1.
8. Else (i.e., lst[mid] > target), set high = mid - 1.
9. If the loop ends without finding the target, return -1 (indicating target not found).

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10. Test the function with example sorted lists and targets.



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