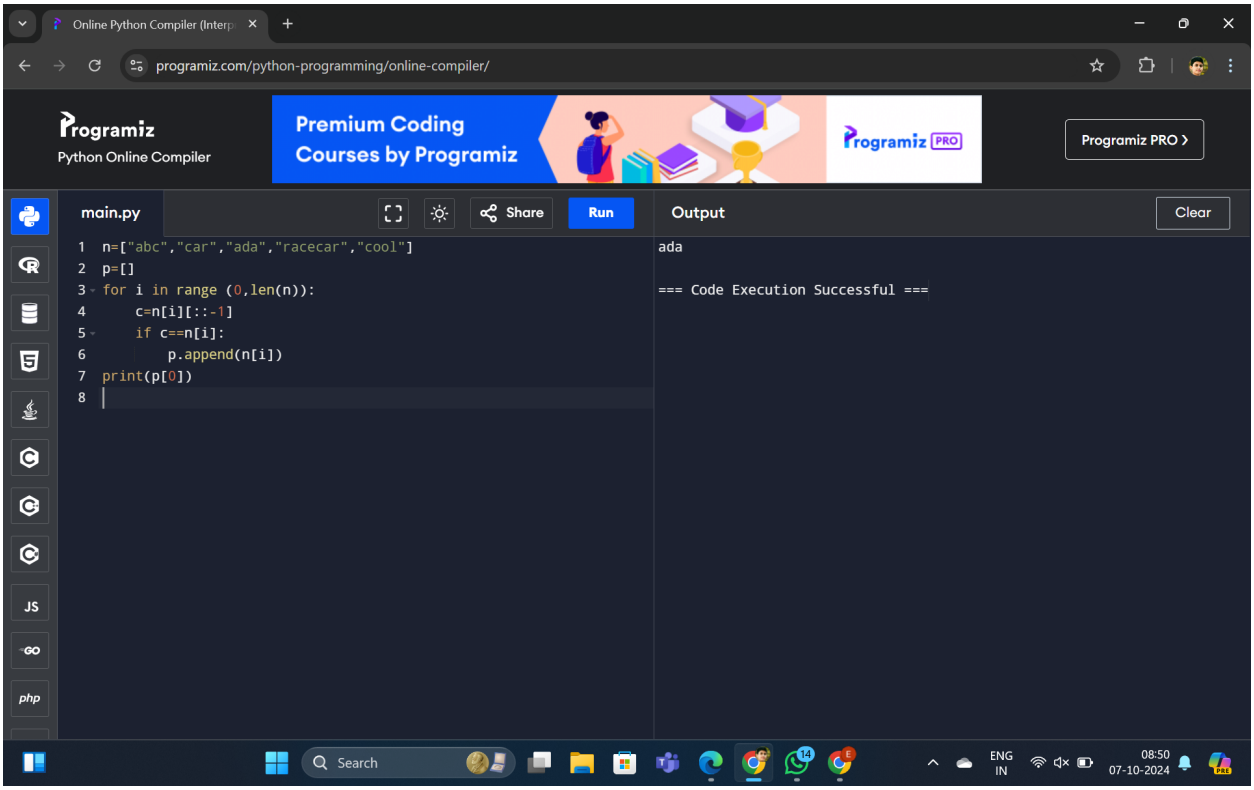
DAY-1

1.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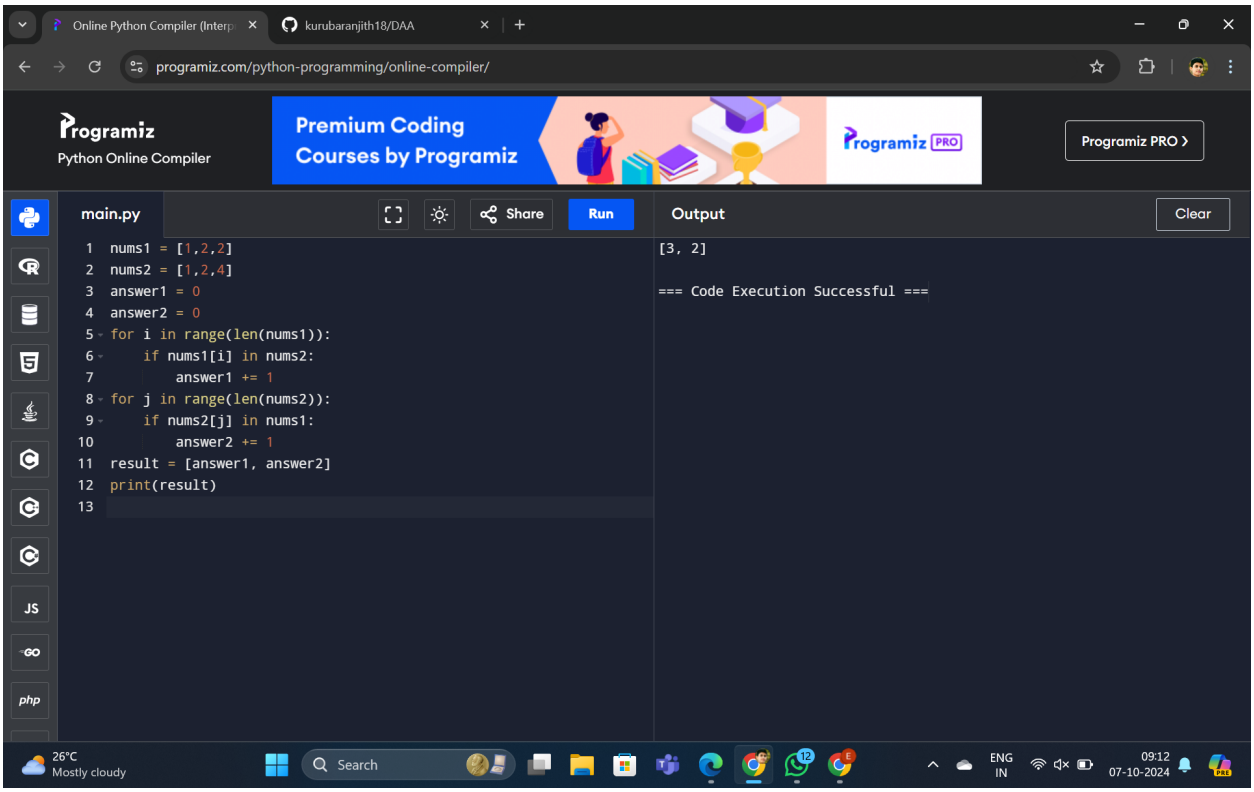
main.py
Share
Run
Output
Clear
1 n=["abc","car","ada","racecar","cool"]
2 p=[]
3 for i in range (0,len(n)):
4 c=n[i][::-1]
5 if c==n[i]:
6 p.append(n[i])
7 print(p[0])
8
ada
=== Code Execution Successful ===
JS
GO
php
Search
ENG
IN
08:50
07-10-2024

2.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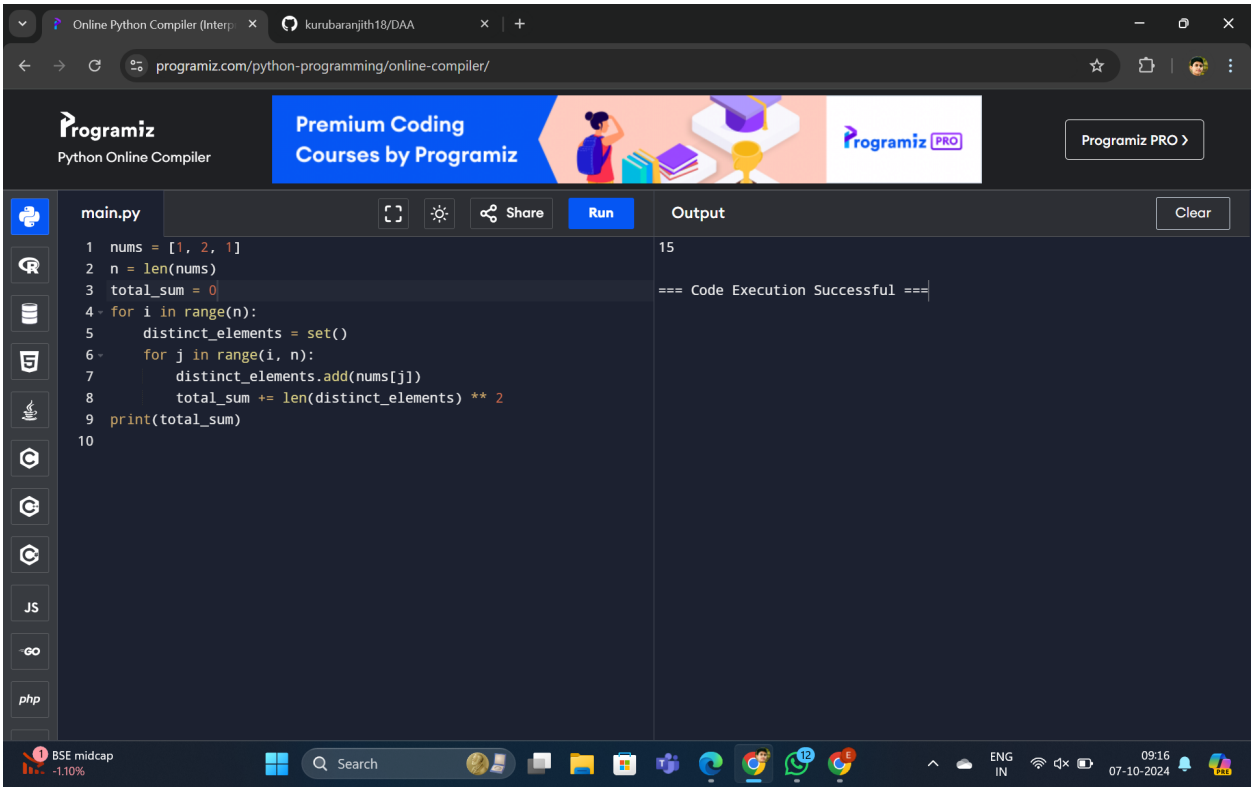
main.py
Share
Run
Output
Clear
1 nums1 = [1,2,2]
2 nums2 = [1,2,4]
3 answer1 = 0
4 answer2 = 0
5 for i in range(len(nums1)):
6 if nums1[i] in nums2:
7 answer1 += 1
8 for j in range(len(nums2)):
9 if nums2[j] in nums1:
10 answer2 += 1
11 result = [answer1, answer2]
12 print(result)
13
[3, 2]
=== Code Execution Successful ===
JS
GO
php
26°C
Mostly cloudy
Search
ENG
IN
09:12
07-10-2024

3.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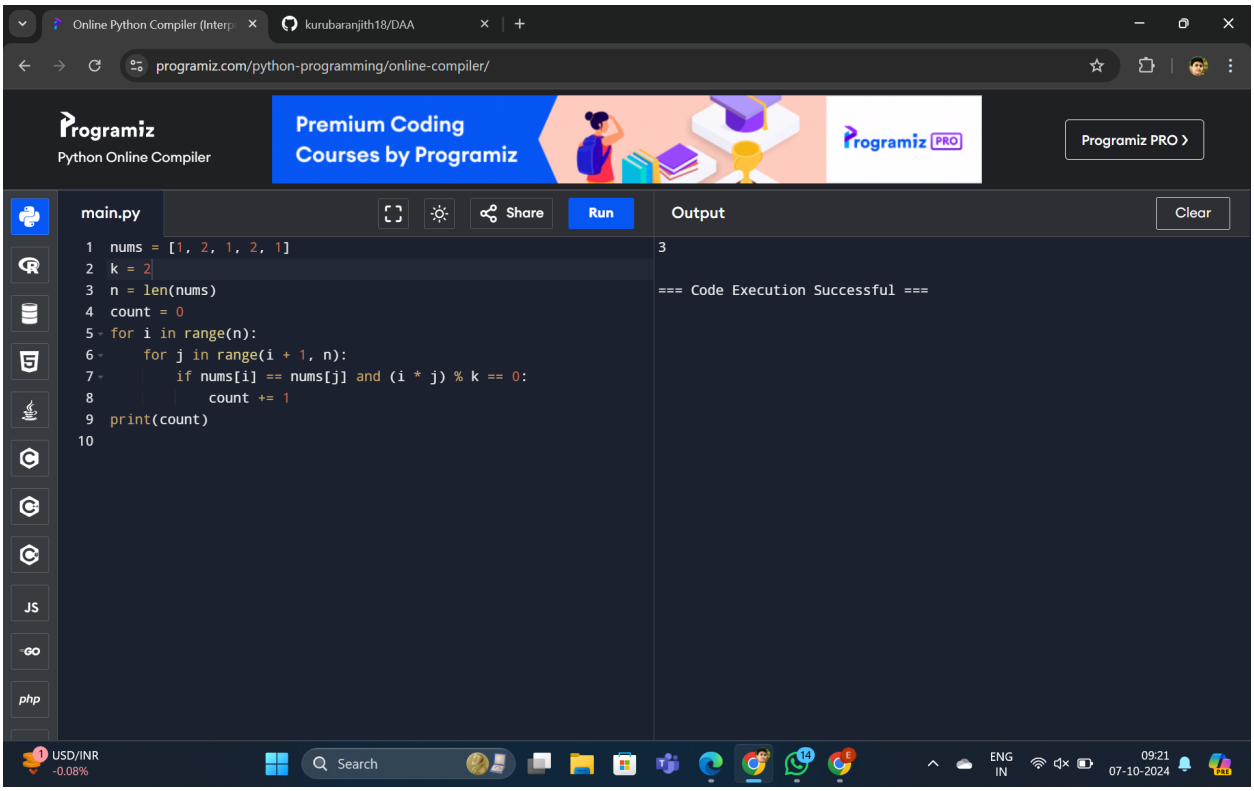
main.py
Share
Run
Output
Clear
1 nums = [1, 2, 1]
2 n = len(nums)
3 total_sum = 0
4 for i in range(n):
5 distinct_elements = set()
6 for j in range(i, n):
7 distinct_elements.add(nums[j])
8 total_sum += len(distinct_elements) ** 2
9 print(total_sum)
10
15
=== Code Execution Successful ===
BSE midcap
-1.10%
Search
ENG
IN
09:16
07-10-2024

4.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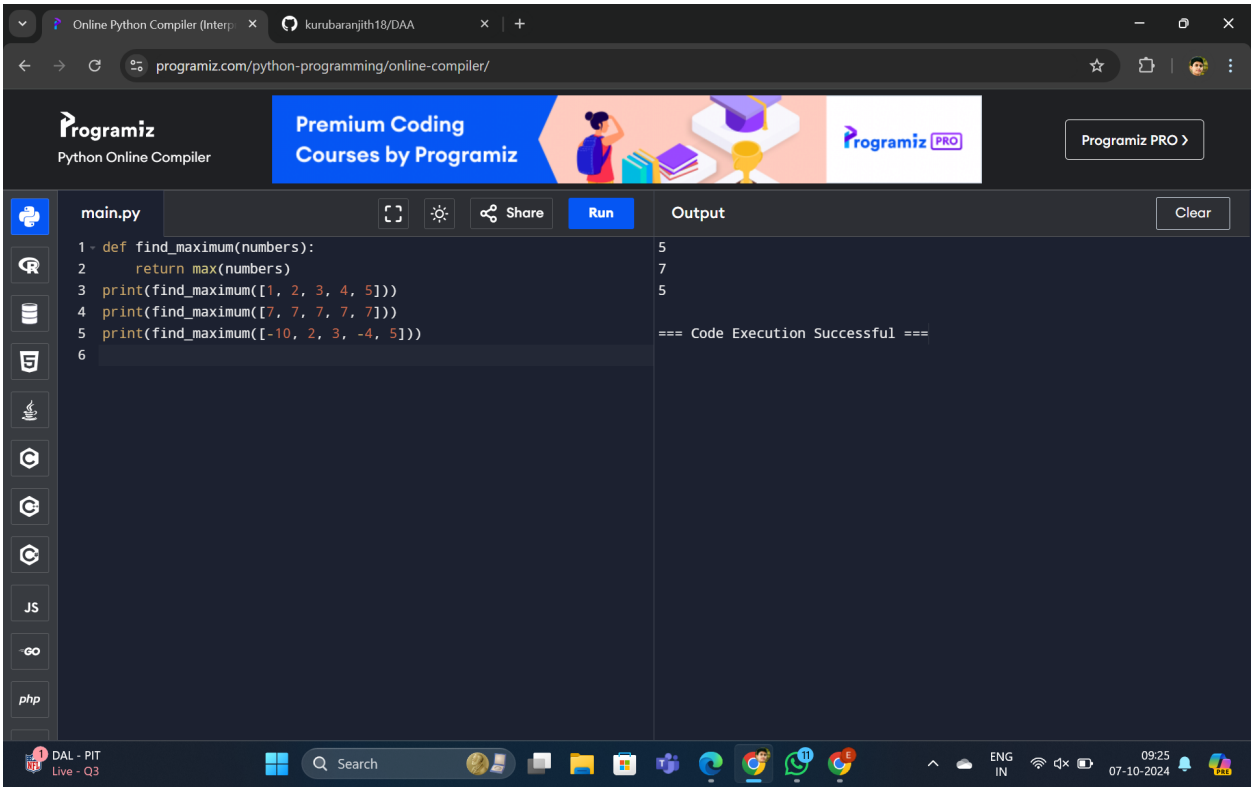
main.py
Share
Run
Output
Clear
1 nums = [1, 2, 1, 2, 1]
2 k = 2
3 n = len(nums)
4 count = 0
5 for i in range(n):
6 for j in range(i + 1, n):
7 if nums[i] == nums[j] and (i * j) % k == 0:
8 count += 1
9 print(count)
10
3
=== Code Execution Successful ===
USD/INR
-0.08%
Search
ENG
IN
09:21
07-10-2024

5.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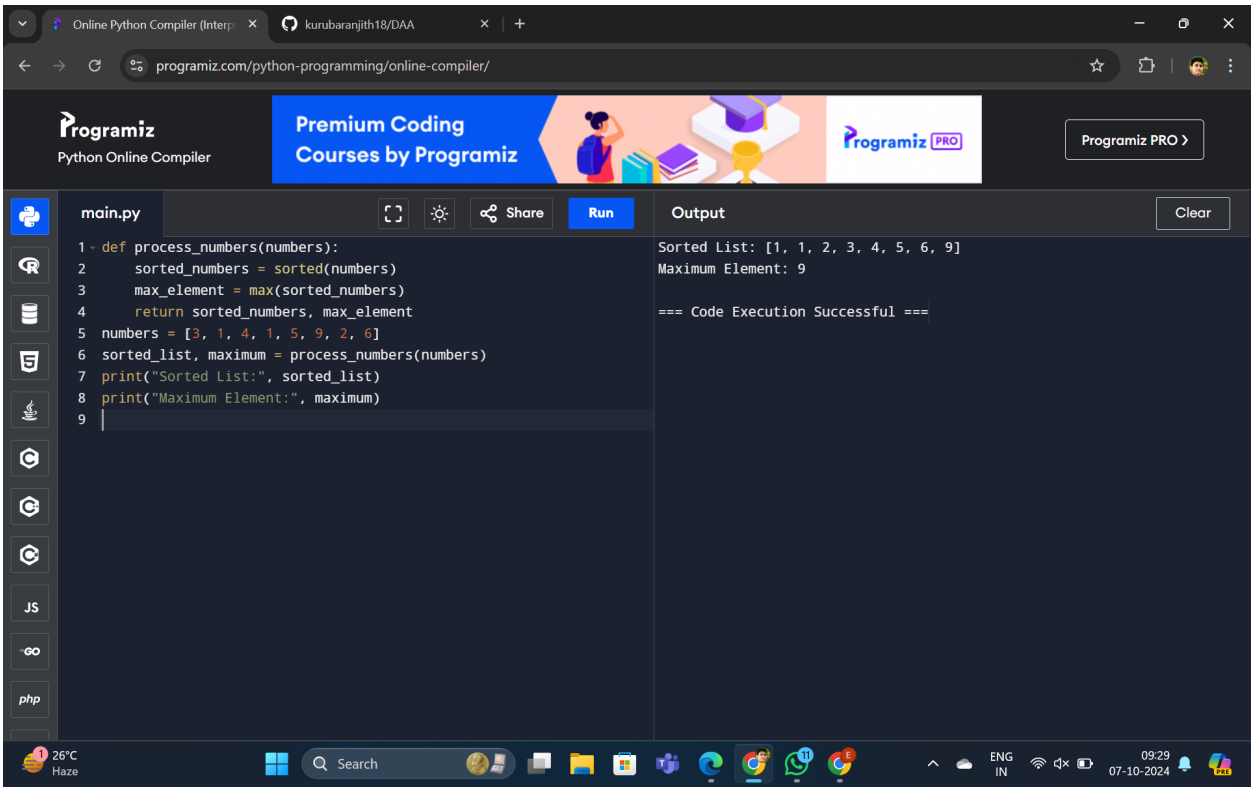
main.py
Share
Run
Output
Clear
1 def find_maximum(numbers):
2 return max(numbers)
3 print(find_maximum([1, 2, 3, 4, 5]))
4 print(find_maximum([7, 7, 7, 7, 7]))
5 print(find_maximum([-10, 2, 3, -4, 5]))
6
5
7
5
=== Code Execution Successful ===
JS
GO
php
DAL - PIT
Live - Q3
Search
ENG
IN
09:25
07-10-2024

6.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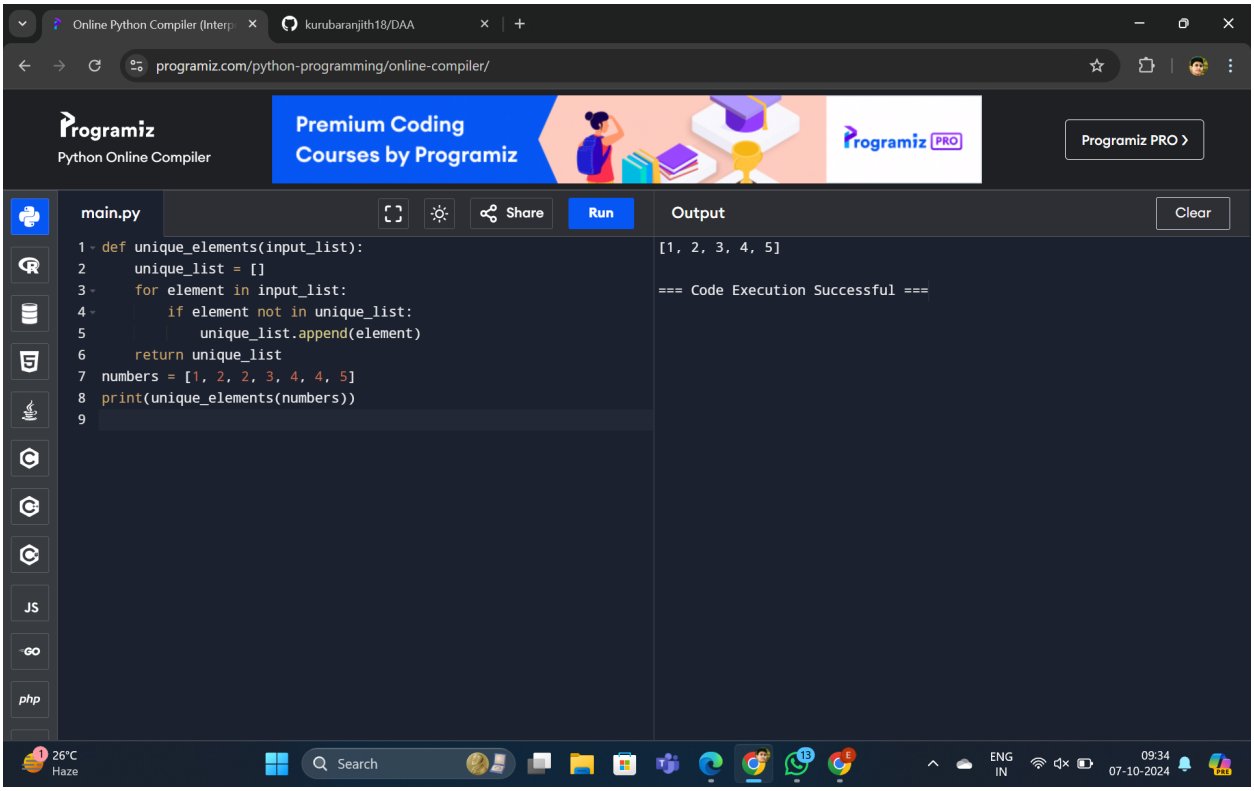
main.py
Share
Run
Output
Clear
1 def process_numbers(numbers):
2 sorted_numbers = sorted(numbers)
3 max_element = max(sorted_numbers)
4 return sorted_numbers, max_element
5 numbers = [3, 1, 4, 1, 5, 9, 2, 6]
6 sorted_list, maximum = process_numbers(numbers)
7 print("Sorted List:", sorted_list)
8 print("Maximum Element:", maximum)
9
Sorted List: [1, 1, 2, 3, 4, 5, 6, 9]
Maximum Element: 9
=== Code Execution Successful ===
JS
GO
php
26°C
Haze
Search
ENG
IN
09:29
07-10-2024

7.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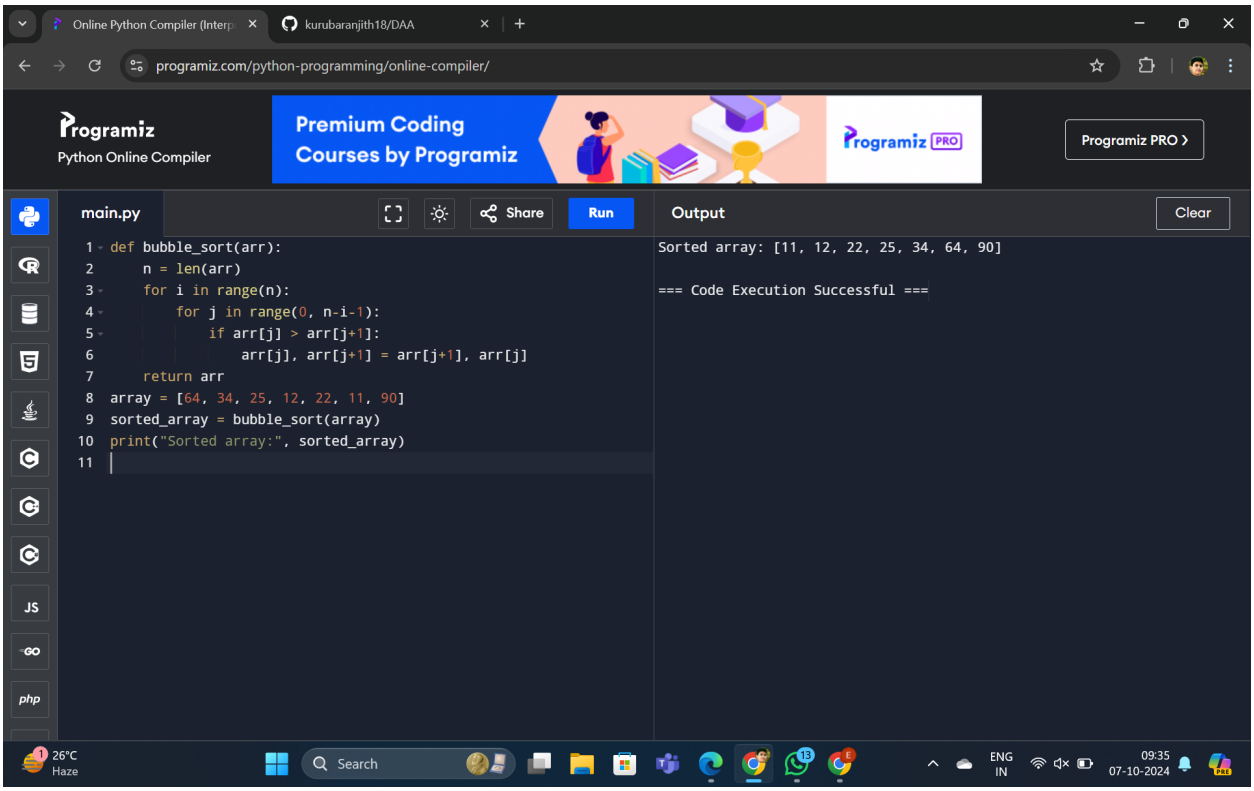
main.py
Share
Run
Output
Clear
def unique_elements(input_list):
unique_list = []
for element in input_list:
if element not in unique_list:
unique_list.append(element)
return unique_list
numbers = [1, 2, 2, 3, 4, 4, 5]
print(unique_elements(numbers))
[1, 2, 3, 4, 5]
=== Code Execution Successful ===
26°C
Haze
Search
ENG
IN
09:34
07-10-2024

8.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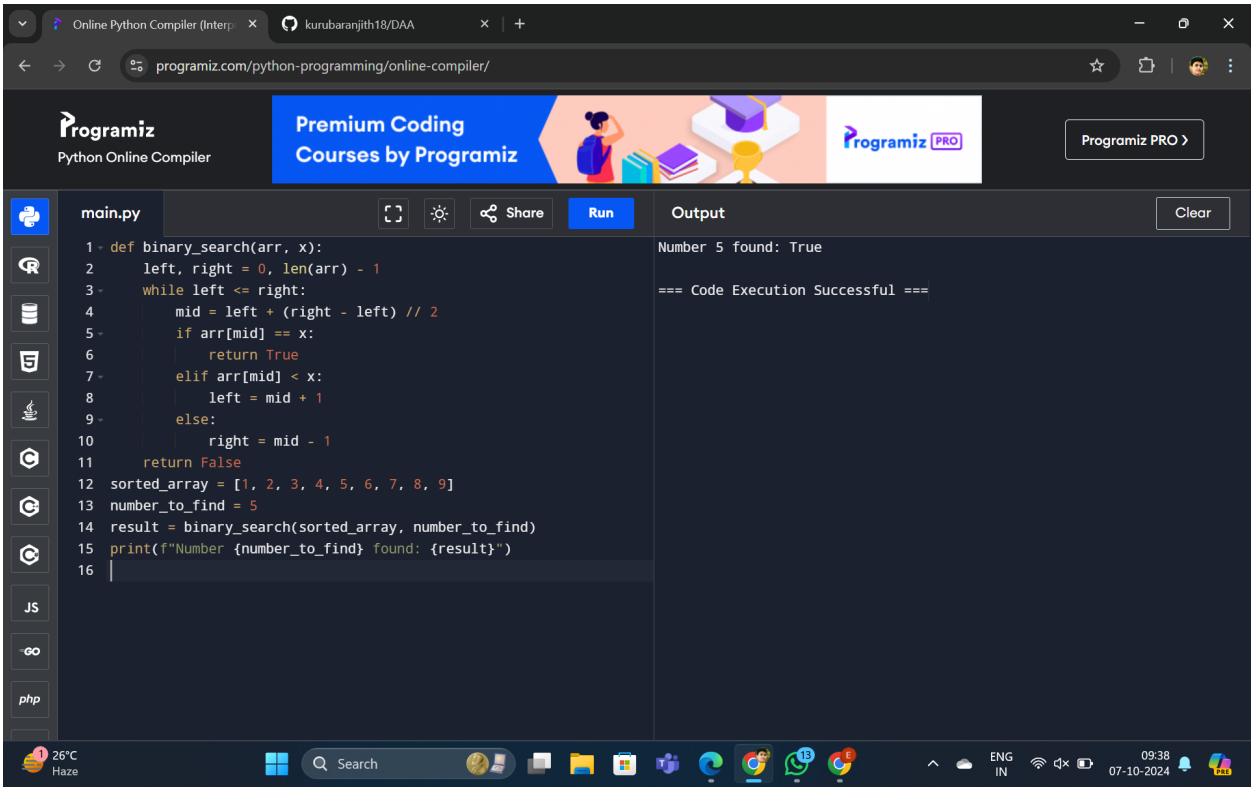
main.py
Share
Run
Output
Clear
def bubble_sort(arr):
n = len(arr)
for i in range(n):
for j in range(0, n-i-1):
if arr[j] > arr[j+1]:
arr[j], arr[j+1] = arr[j+1], arr[j]
return arr
array = [64, 34, 25, 12, 22, 11, 90]
sorted_array = bubble_sort(array)
print("Sorted array:", sorted_array)
Sorted array: [11, 12, 22, 25, 34, 64, 90]
=== Code Execution Successful ===
26°C
Haze
Search
ENG
IN
09:35
07-10-2024

9.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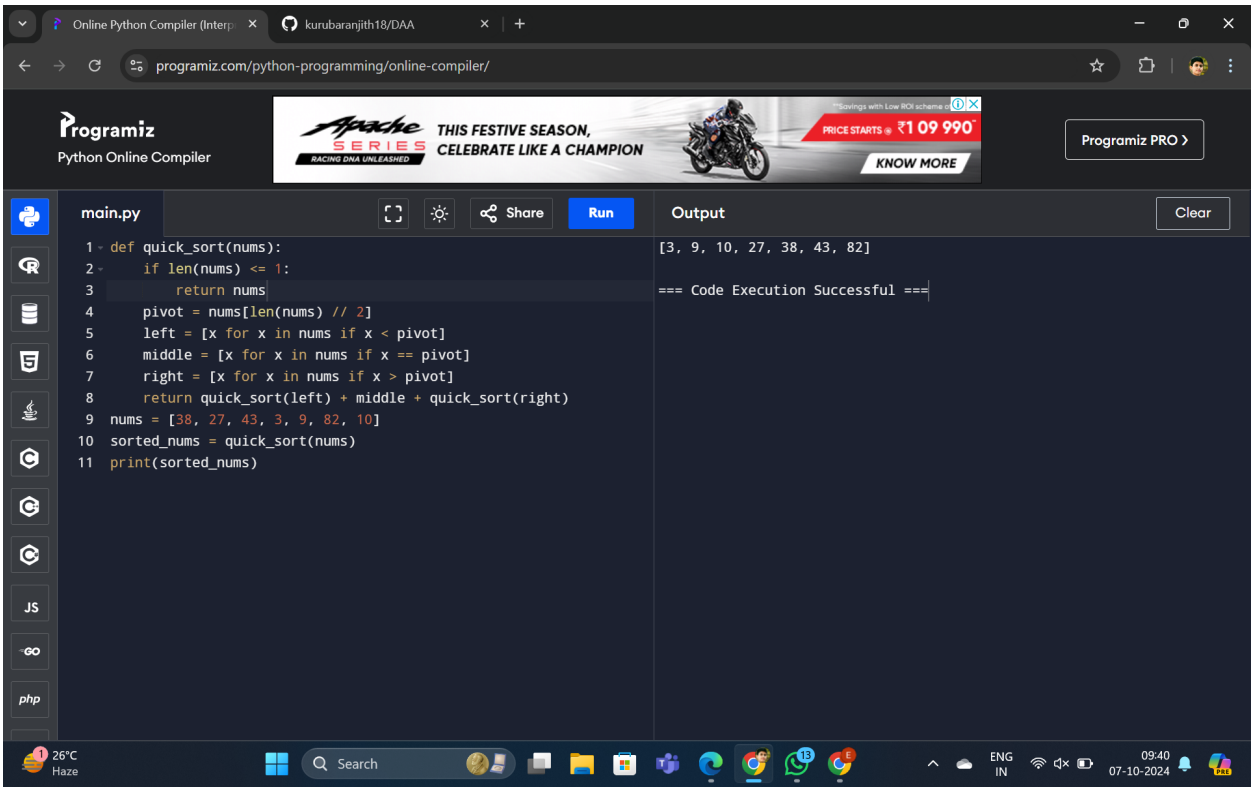
main.py
Share
Run
Output
Clear
def binary_search(arr, x):
left, right = 0, len(arr) - 1
while left <= right:
mid = left + (right - left) // 2
if arr[mid] == x:
return True
elif arr[mid] < x:
left = mid + 1
else:
right = mid - 1
return False
sorted_array = [1, 2, 3, 4, 5, 6, 7, 8, 9]
number_to_find = 5
result = binary_search(sorted_array, number_to_find)
print(f"Number {number_to_find} found: {result}")
Number 5 found: True
=== Code Execution Successful ===
26°C
Haze
Search
ENG
IN
09:38
07-10-2024

10.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main.py
Share
Run
Output
Clear
def quick_sort(nums):
if len(nums) <= 1:
return nums
pivot = nums[len(nums) // 2]
left = [x for x in nums if x < pivot]
middle = [x for x in nums if x == pivot]
right = [x for x in nums if x > pivot]
return quick_sort(left) + middle + quick_sort(right)
nums = [38, 27, 43, 3, 9, 82, 10]
sorted_nums = quick_sort(nums)
print(sorted_nums)
[3, 9, 10, 27, 38, 43, 82]
=== Code Execution Successful ===
26°C
Haze
Search
ENG
IN
09:40
07-10-2024