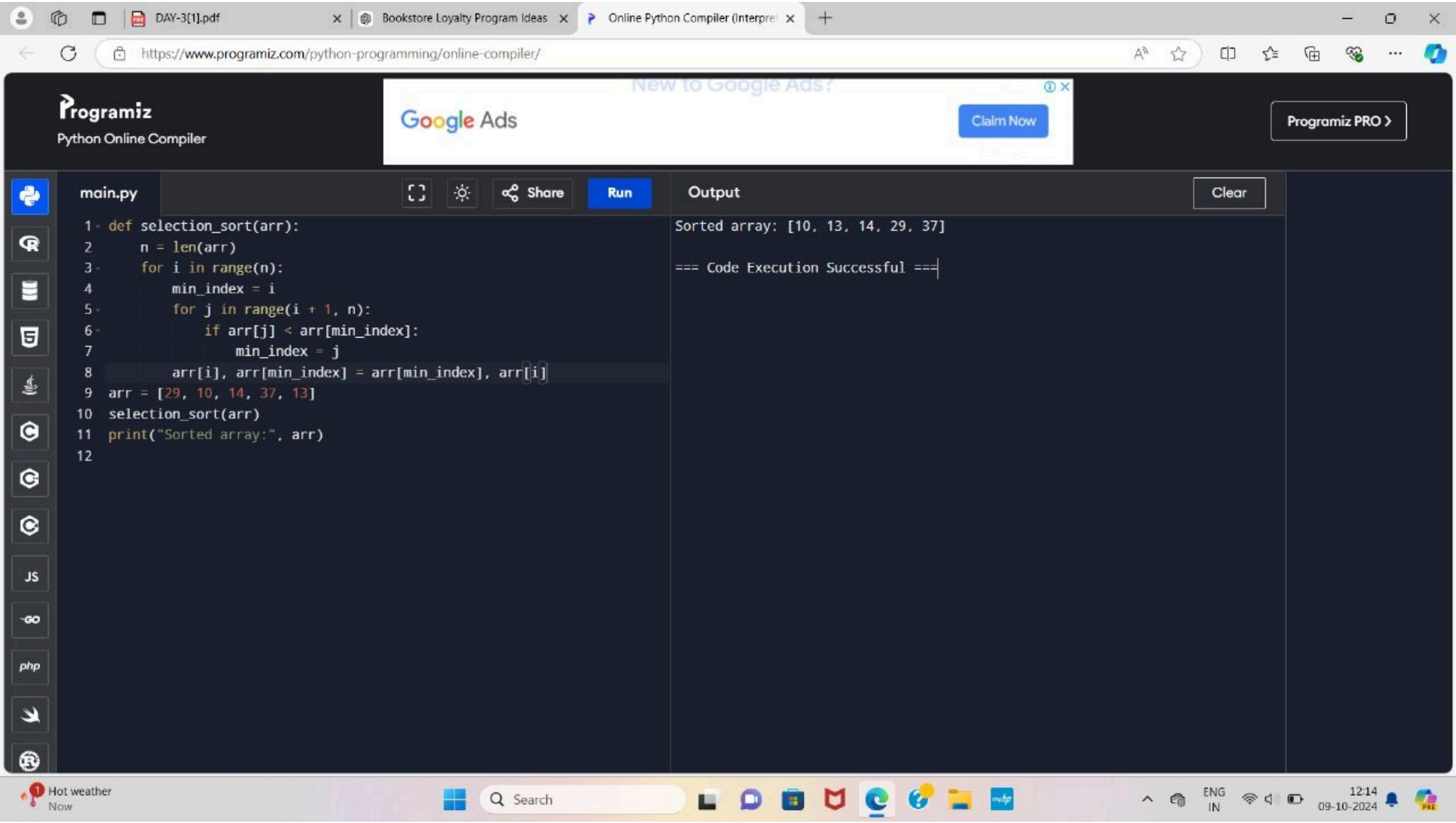
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Run
Output
Clear
def selection_sort(arr):
n = len(arr)
for i in range(n):
min_index = i
for j in range(i + 1, n):
if arr[j] < arr[min_index]:
min_index = j
arr[i], arr[min_index] = arr[min_index], arr[i]
arr = [29, 10, 14, 37, 13]
selection_sort(arr)
print("Sorted array:", arr)
Sorted array: [10, 13, 14, 29, 37]
=== Code Execution Successful ===
Hot weather
Now
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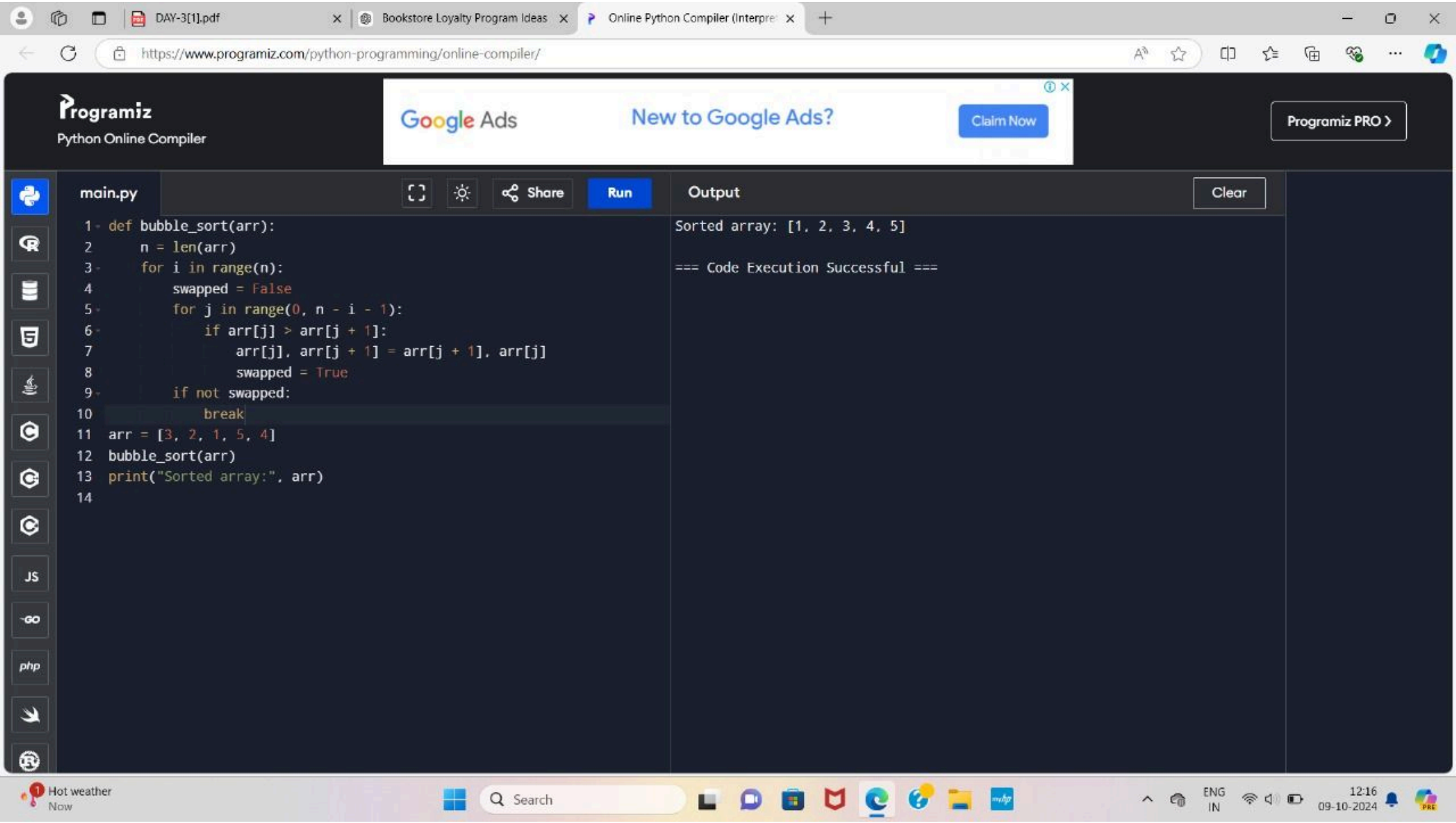
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Run
Output
Clear
def bubble_sort(arr):
n = len(arr)
for i in range(n):
swapped = False
for j in range(0, n - i - 1):
if arr[j] > arr[j + 1]:
arr[j], arr[j + 1] = arr[j + 1], arr[j]
swapped = True
if not swapped:
break
arr = [3, 2, 1, 5, 4]
bubble_sort(arr)
print("Sorted array:", arr)
Sorted array: [1, 2, 3, 4, 5]
=== Code Execution Successful ===
Hot weather
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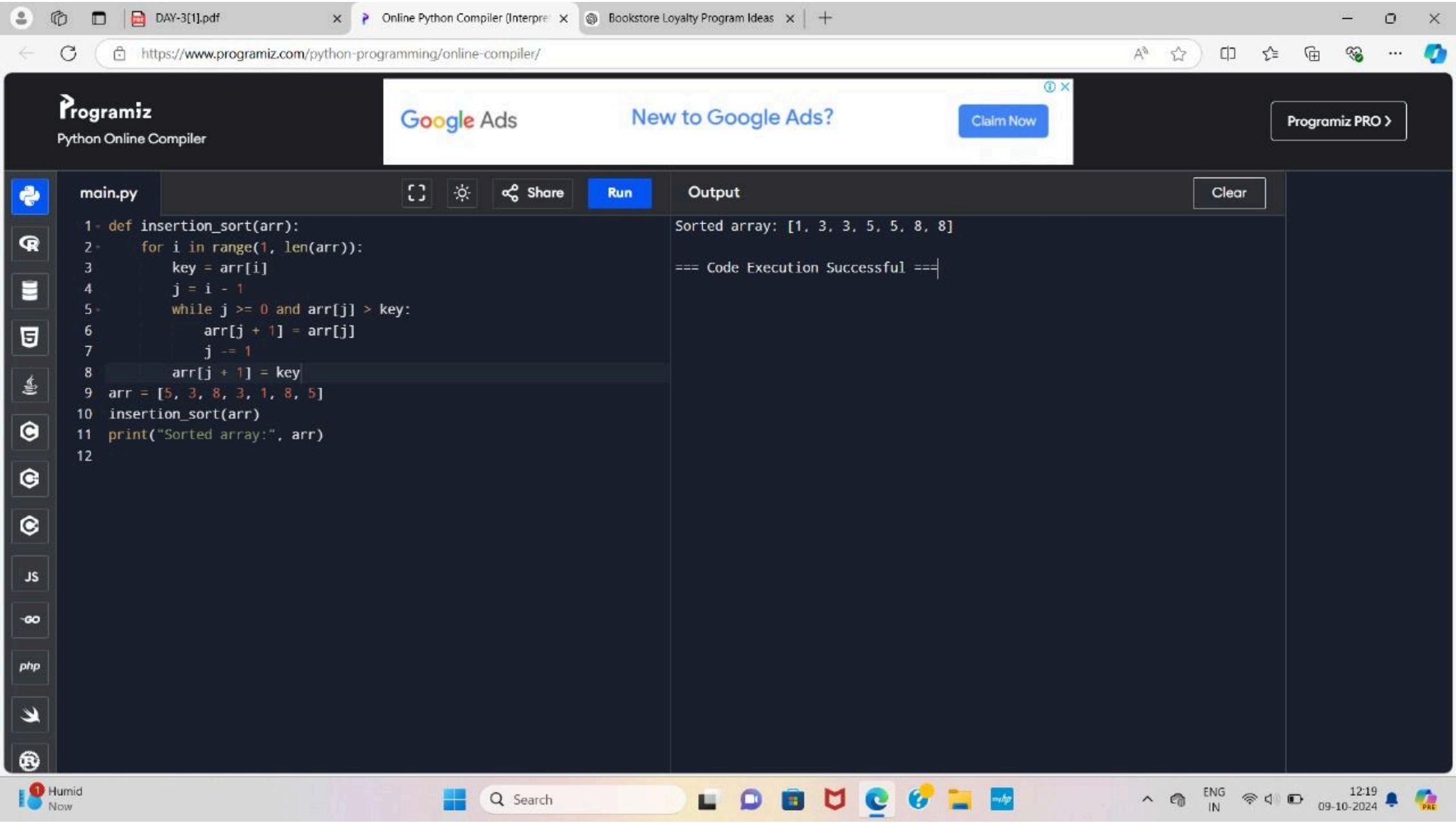
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Share
Run
Output
Clear
def insertion_sort(arr):
for i in range(1, len(arr)):
key = arr[i]
j = i - 1
while j >= 0 and arr[j] > key:
arr[j + 1] = arr[j]
j -= 1
arr[j + 1] = key
arr = [5, 3, 8, 3, 1, 8, 5]
insertion_sort(arr)
print("Sorted array:", arr)
Sorted array: [1, 3, 3, 5, 5, 8, 8]
=== Code Execution Successful ===
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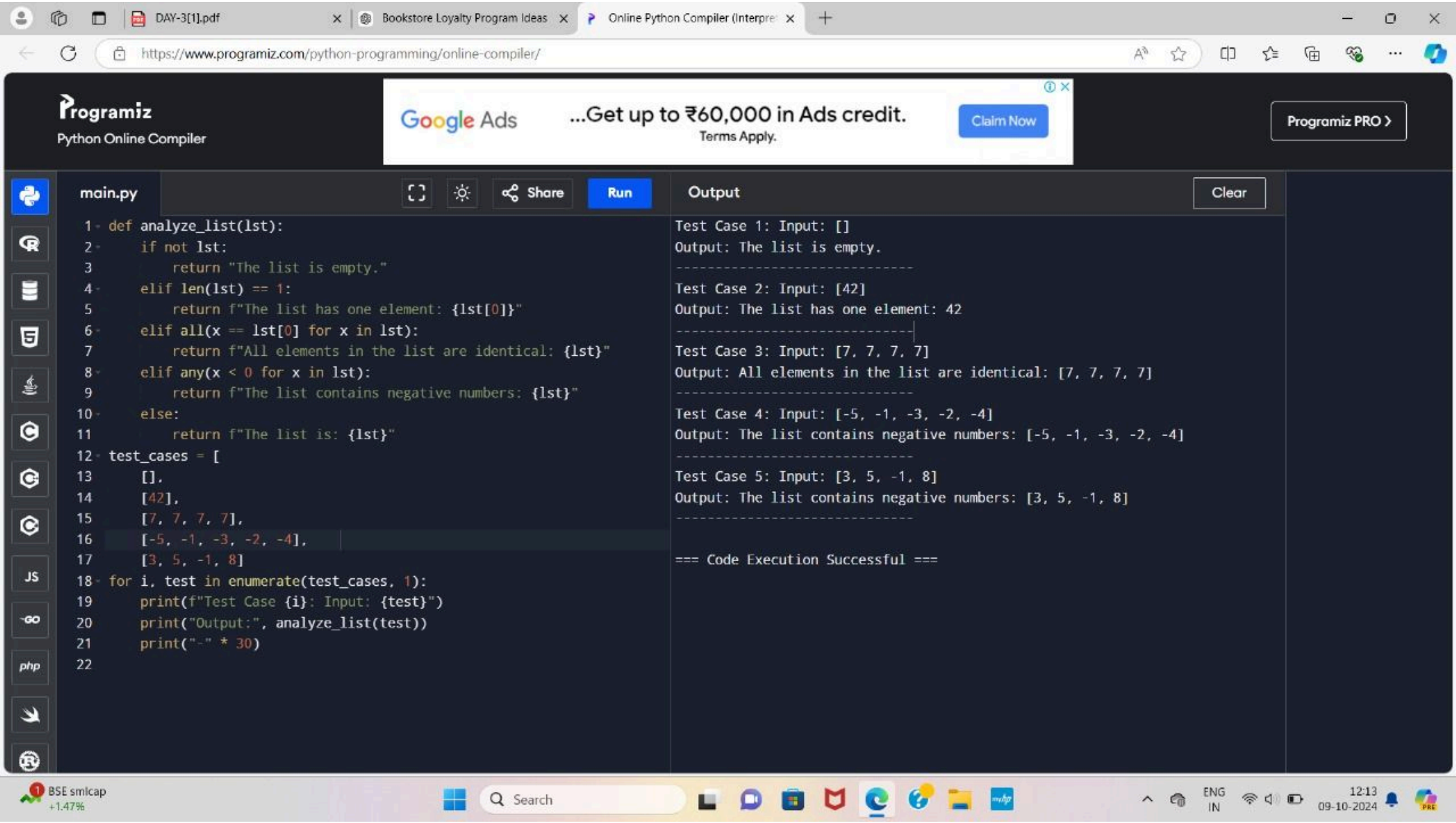
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main.py
Share
Run
Output
Clear
def analyze_list(lst):
if not lst:
return "The list is empty."
elif len(lst) == 1:
return f"The list has one element: {lst[0]}"
elif all(x == lst[0] for x in lst):
return f"All elements in the list are identical: {lst}"
elif any(x < 0 for x in lst):
return f"The list contains negative numbers: {lst}"
else:
return f"The list is: {lst}"
test_cases = [
[],
[42],
[7, 7, 7, 7],
[-5, -1, -3, -2, -4],
[3, 5, -1, 8]
for i, test in enumerate(test_cases, 1):
print(f"Test Case {i}: Input: {test}")
print("Output:", analyze_list(test))
print("-" * 30)
Test Case 1: Input: []
Output: The list is empty.
Test Case 2: Input: [42]
Output: The list has one element: 42
Test Case 3: Input: [7, 7, 7, 7]
Output: All elements in the list are identical: [7, 7, 7, 7]
Test Case 4: Input: [-5, -1, -3, -2, -4]
Output: The list contains negative numbers: [-5, -1, -3, -2, -4]
Test Case 5: Input: [3, 5, -1, 8]
Output: The list contains negative numbers: [3, 5, -1, 8]
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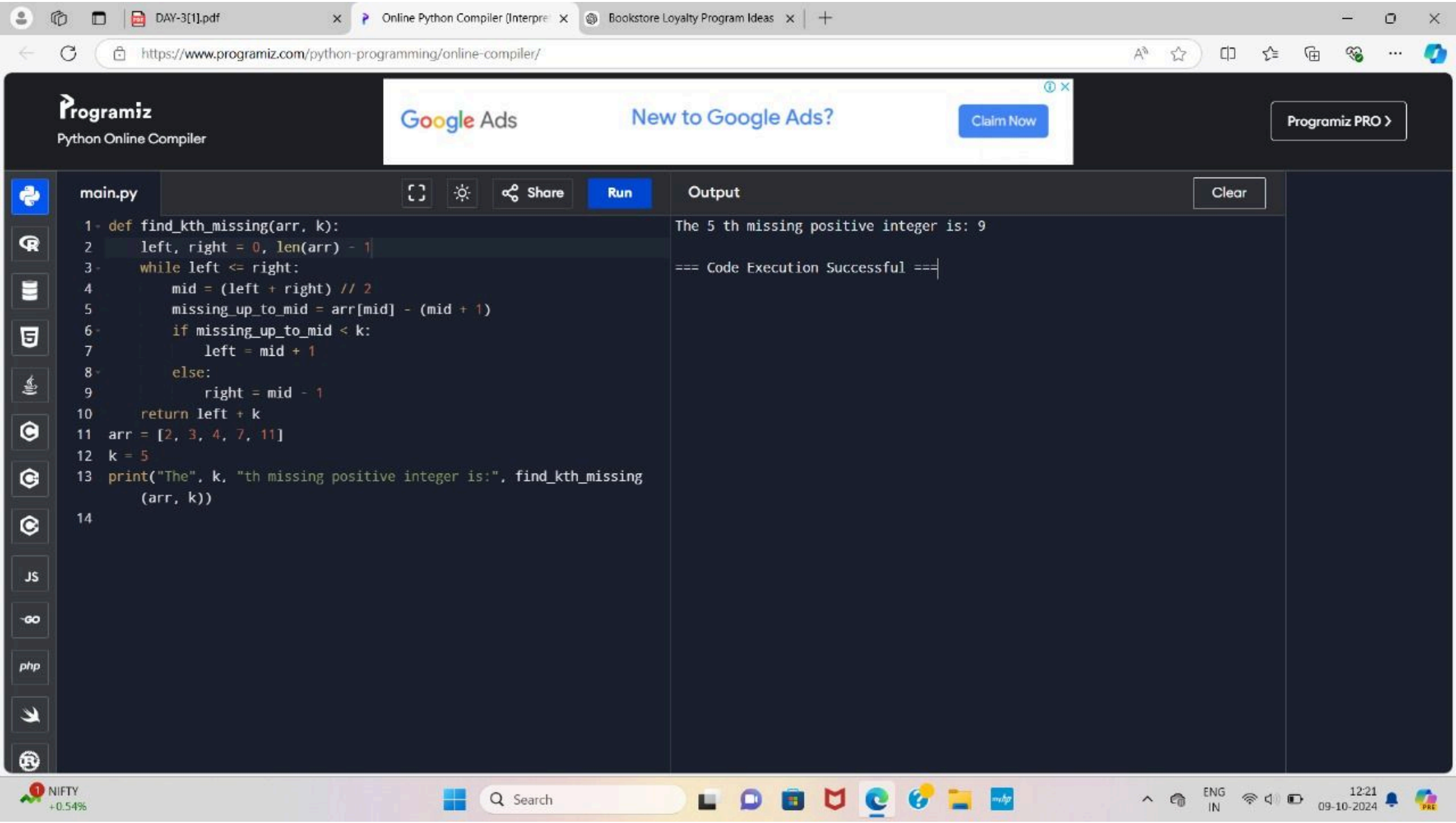
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Run
Output
Clear
def find_kth_missing(arr, k):
left, right = 0, len(arr) - 1
while left <= right:
mid = (left + right) // 2
missing_up_to_mid = arr[mid] - (mid + 1)
if missing_up_to_mid < k:
left = mid + 1
else:
right = mid - 1
return left + k
arr = [2, 3, 4, 7, 11]
k = 5
print("The", k, "th missing positive integer is:", find_kth_missing
(arr, k))
The 5 th missing positive integer is: 9
=== Code Execution Successful ===
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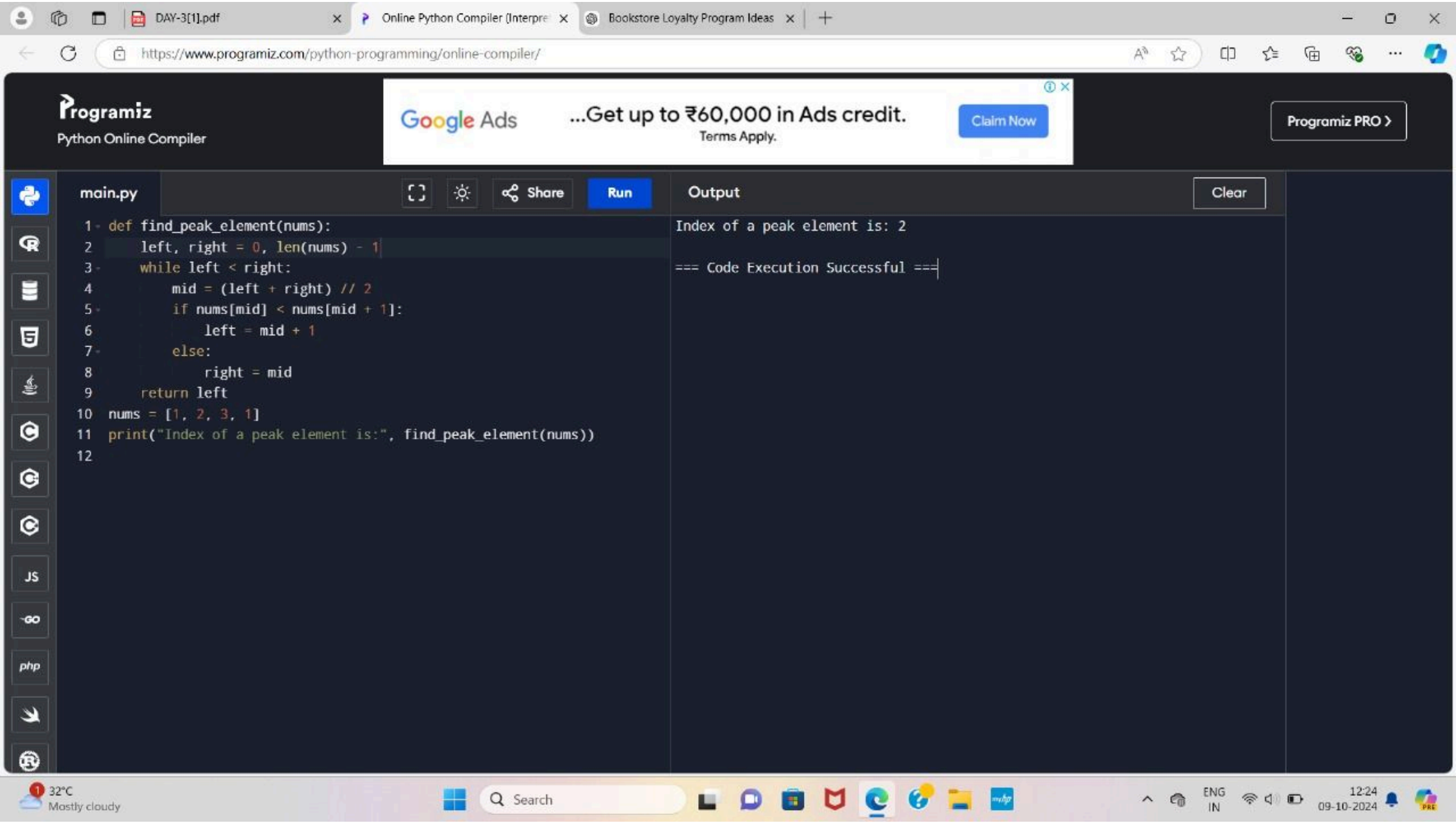
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Run
Output
Clear
def find_peak_element(nums):
left, right = 0, len(nums) - 1
while left < right:
mid = (left + right) // 2
if nums[mid] < nums[mid + 1]:
left = mid + 1
else:
right = mid
return left
nums = [1, 2, 3, 1]
print("Index of a peak element is:", find_peak_element(nums))
Index of a peak element is: 2
=== Code Execution Successful ===
32°C
Mostly cloudy
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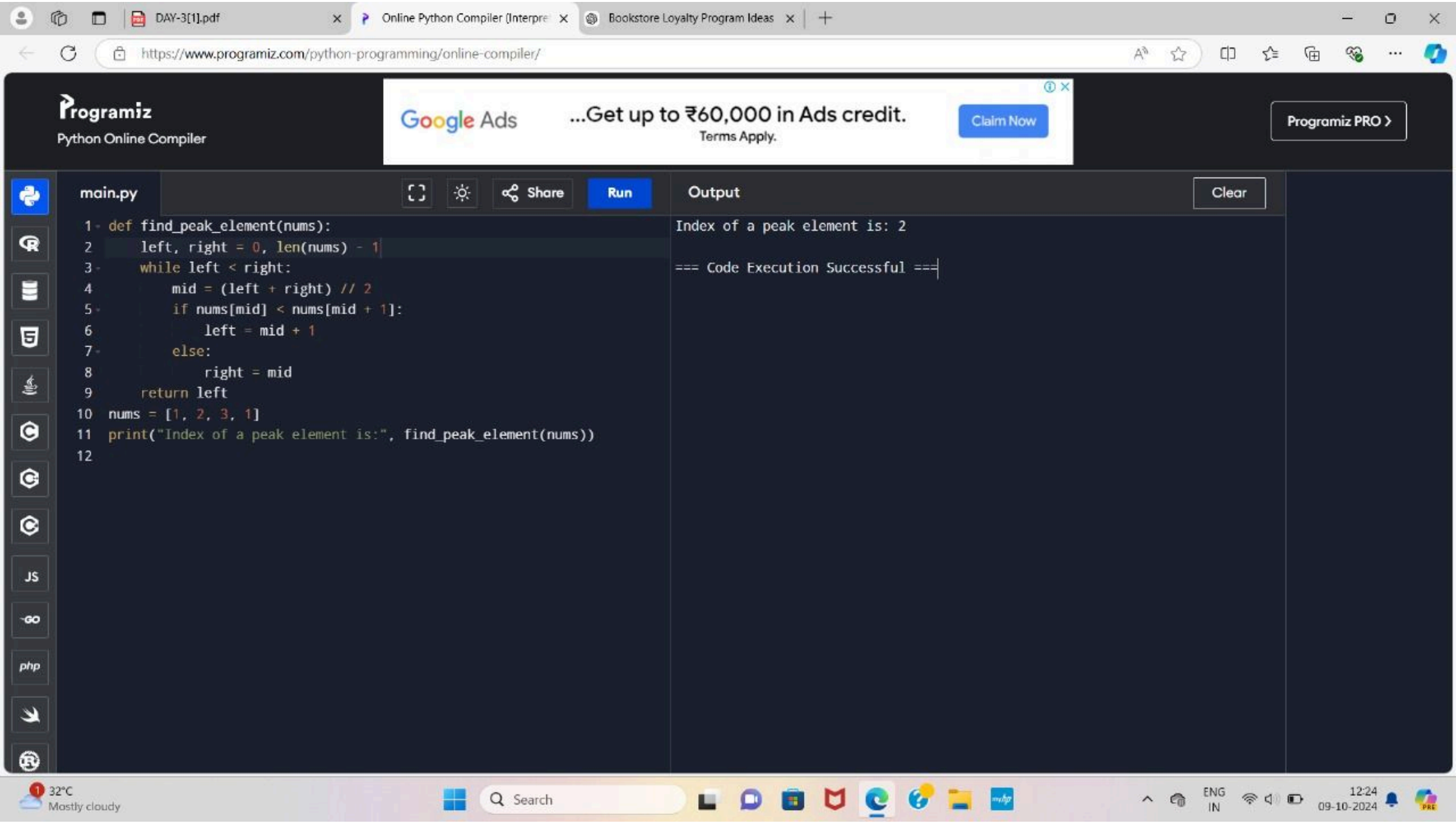
09-10-2024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Output
Clear
def find_peak_element(nums):
left, right = 0, len(nums) - 1
while left < right:
mid = (left + right) // 2
if nums[mid] < nums[mid + 1]:
left = mid + 1
else:
right = mid
return left
nums = [1, 2, 3, 1]
print("Index of a peak element is:", find_peak_element(nums))
Index of a peak element is: 2
=== Code Execution Successful ===
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```
1 - def strStr(haystack: str, needle: str) -> int:
2       return haystack.find(needle)
3   haystack = "hello"
4   needle = "ll"
5   print("The index of the first occurrence is:", strStr(haystack, needle
        ))
6
```

Output | Clear

```
The index of the first occurrence is: 2

=== Code Execution Successful ===
```

32°C
Mostly cloudy

Search

ENG
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