

A vertical banner for Programiz PRO. At the top is the Programiz logo with a purple 'P' and the word 'Programiz' in blue, followed by 'PRO' in white text inside a purple rounded rectangle. Below this, the text 'Premium Courses by Programiz' is displayed in a bold, black, sans-serif font. Underneath the text is a purple rounded rectangle with the white text 'Learn More'. The bottom half of the banner features a stylized illustration of a person with dark hair in a bun, wearing a red shirt, yellow pants, and a blue backpack. They are standing on a set of white stairs with purple steps, looking up. A stack of books, including one with a purple cover, is on the stairs next to them.

main.py

Run

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```
1 def unique_elements(nums):
2     return list(set(nums))
3
4 print(unique_elements([3, 7, 3, 5, 2, 5, 9, 2]))
5 print(unique_elements([-1, 2, -1, 3, 2, -2]))
6 print(unique_elements([1000000, 999999, 1000000]))
7
```

Output

Clear

```
[2, 3, 5, 7, 9]
[2, 3, -1, -2]
[1000000, 999999]

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

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main.py



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Output

Clear

```
1- def bubble_sort(arr):
2-     n = len(arr)
3-     for i in range(n):
4-         for j in range(0, n - i - 1):
5-             if arr[j] > arr[j + 1]:
6-                 arr[j], arr[j + 1] = arr[j + 1], arr[j]
7-     return arr
8-
9- print(bubble_sort([64, 34, 25, 12, 22, 11, 90]))
10 print(bubble_sort([5, 1, 4, 2, 8]))
```

```
[11, 12, 22, 25, 34, 64, 90]
[1, 2, 4, 5, 8]
```

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

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A vertical banner for Programiz PRO. At the top is the Programiz logo with 'PRO' in a purple box. Below it, the text 'Premium Courses by Programiz' is displayed. A purple button with 'Learn More' is positioned below the text. The bottom half of the banner features a 3D illustration of a person with a backpack standing next to a stack of books on a staircase.

main.py

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Output

Clear

```
1 def process_list(nums):
2     if not nums:
3         return "The list is empty."
4
5     nums.sort()
6     return nums[-1]
7 print(process_list([]))
8 print(process_list([5]))
9 print(process_list([3, 3, 3, 3]))
10
```

```
The list is empty.
5
3

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

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main.py



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Output

Clear

```
1 def first_palindromic_string(words):
2     for word in words:
3         if word == word[::-1]:
4             return word
5     return ""
6
7 words1 = ["abc", "car", "ada", "racecar", "cool"]
8 words2 = ["notapalindrome", "racecar"]
9
10 print(first_palindromic_string(words1))
11 print(first_palindromic_string(words2))
```

ada
racecar

=== Code Execution Successful ===

```
main.py  [Full Screen] [Settings] [Share] [Run]

1- def binary_search(arr, key):
2-     arr.sort()
3-     left, right = 0, len(arr) - 1
4-
5-     while left <= right:
6-         mid = left + (right - left) // 2
7-         if arr[mid] == key:
8-             return f"Element {key} is found at position {mid + 1}"
9-         elif arr[mid] < key:
10-            left = mid + 1
11-         else:
12-            right = mid - 1
13-
14-     return f"Element {key} is not found"
15-
16- arr1 = [3, 4, 6, -9, 10, 8, 9, 30]
17- key1 = 10
18- print(binary_search(arr1, key1))
19-
20- arr2 = [3, 4, 6, -9, 10, 8, 9, 30]
21- key2 = 100
22- print(binary_search(arr2, key2))
```

Output

Clear

Element 10 is found at position 7
Element 100 is not found

=== Code Execution Successful ===

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A screenshot of a code editor interface. The editor has a dark theme. On the left, there's a sidebar with icons for file explorer, search, and other tools. The main area is split into two panes. The left pane shows a Python file named 'main.py' with the following code:

```
1 def find_max(nums):  
2     return max(nums)  
3 print(find_max([1, 2, 3, 4, 5]))  
4 print(find_max([7, 7, 7, 7, 7]))  
5 print(find_max([-10, 2, 3, -4, 5]))  
6
```

The right pane is titled 'Output' and shows the results of the code execution:

```
5  
7  
5  
  
=== Code Execution Successful ===
```

At the bottom of the screen, there's a Windows taskbar with various icons, including the Start button, search bar, and several application icons. The system tray shows the date and time as 24-01-2025 09:54.

main.py

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Run

Output

Clear

```
3     return nums
4
5     mid = len(nums) // 2
6     left = merge_sort(nums[:mid])
7     right = merge_sort(nums[mid:])
8     return merge(left, right)
9
10 def merge(left, right):
11     sorted_array = []
12     i = j = 0
13
14     while i < len(left) and j < len(right):
15         if left[i] < right[j]:
16             sorted_array.append(left[i])
17             i += 1
18         else:
19             sorted_array.append(right[j])
20             j += 1
21
22     sorted_array.extend(left[i:])
23     sorted_array.extend(right[j:])
24
25     return sorted_array
26
27 nums1 = [3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5]
28 print(merge_sort(nums1))
```

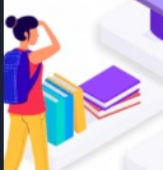
```
[1, 1, 2, 3, 3, 4, 5, 5, 5, 6, 9]

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

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25°C Mostly sunny

Search



ENG IN

09:59 24-01-2025

main.py

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Output

Clear

```
1 def count_indices(nums1, nums2):
2     answer1 = sum(1 for num in nums1 if num in nums2)
3     answer2 = sum(1 for num in nums2 if num in nums1)
4     return [answer1, answer2]
5
6 nums1 = [2, 3, 2]
7 nums2 = [1, 2]
8
9 print(count_indices(nums1, nums2))
10
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```

[2, 1]

[3, 4]

=== Code Execution Successful ===

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09:50 24-01-2025