

List Assignment

1. Write a Python program to find the largest and smallest numbers in a list.
2. Create a Python program to reverse a list without using the `reverse()` method.
3. Write a Python program to check if a list is a palindrome (reads the same forward and backward).
4. Create a Python program to count the frequency of each element in a list.
5. Write a Python program to find the sum of elements in a list.
6. Create a Python program to remove duplicates from a list without using `set()`.
7. Write a Python program to find the second largest number in a list.
8. Create a Python program to rotate a list to the left by `k` positions.
9. Write a Python program to merge two sorted lists into one sorted list.
10. Create a Python program to find all the unique elements in a list.
11. Write a Python program to split a list into two halves and swap them.
12. Create a Python program to find the intersection of two lists.
13. Write a Python program to find the longest sub-list of consecutive integers in a given list.
14. Create a Python program to check if all elements in a list are unique.
15. Write a Python program to flatten a nested list (e.g., `[[1, 2], [3, 4]]` → `[1, 2, 3, 4]`).