1. Write a Python program to find sum of elements in list?

Ans1

my\_list = [1, 2, 3, 4, 5]

sum\_of\_list = sum(my\_list)

print("Sum of elements in the list:", sum\_of\_list)

2. Write a Python program to Multiply all numbers in the list?

Ans2

my\_list = [1, 2, 3, 4, 5]

product = 1

for num in my\_list:

product \*= num

print("Product of all numbers in the list:", product)

3. Write a Python program to find smallest number in a list?

Ans3

my\_list = [5, 2, 8, 1, 9, 3]

smallest\_num = min(my\_list)

print("Smallest number in the list:", smallest\_num)

4. Write a Python program to find largest number in a list?

Ans4

my\_list = [5, 2, 8, 1, 9, 3]

largest\_num = max(my\_list)

print("Largest number in the list:", largest\_num)

5. Write a Python program to find second largest number in a list?

Ans5

my\_list = [5, 2, 8, 1, 9, 3]

largest\_num = max(my\_list)

second\_largest\_num = max(num for num in my\_list if num != largest\_num)

print("Second largest number in the list:", second\_largest\_num)

6. Write a Python program to find N largest elements from a list?

Ans6

my\_list = [5, 2, 8, 1, 9, 3]

n = 3 # find 3 largest elements

largest\_n\_nums = sorted(my\_list, reverse=True)[:n]

print(f"{n} largest numbers in the list:", largest\_n\_nums)

7. Write a Python program to print even numbers in a list?

Ans7

my\_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

even\_nums = [num for num in my\_list if num % 2 == 0]

print("Even numbers in the list:", even\_nums)

8. Write a Python program to print odd numbers in a List?

Ans8

my\_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

odd\_nums = [num for num in my\_list if num % 2 != 0]

print("Odd numbers in the list:", odd\_nums)

9. Write a Python program to Remove empty List from List?

Ans9

my\_list = [[], [1, 2], [], [3, 4, 5], [], [], [6]]

new\_list = [lst for lst in my\_list if lst]

print("List with empty lists removed:", new\_list)

10. Write a Python program to Cloning or Copying a list?

Ans10

my\_list = [1, 2, 3, 4, 5]

new\_list = my\_list.copy()

print("Original list:", my\_list)

print("Cloned list:", new\_list)

11. Write a Python program to Count occurrences of an element in a list?

Ans11

my\_list = [1, 2, 3, 4, 1, 5, 1]

element = 1

count = my\_list.count(element)

print(f"The element {element} appears {count} times in the list.")