1. Write a Python program to find sum of elements in list?
2. Write a Python program to Multiply all numbers in the list?
3. Write a Python program to find smallest number in a list?
4. Write a Python program to find largest number in a list?
5. Write a Python program to find second largest number in a list?
6. Write a Python program to find N largest elements from a list?
7. Write a Python program to print even numbers in a list?
8. Write a Python program to print odd numbers in a List?
9. Write a Python program to Remove empty List from List?
10. Write a Python program to Cloning or Copying a list?
11. Write a Python program to Count occurrences of an element in a list?

Answer:

Sure! Here are the Python programs for each of the tasks you mentioned:

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

```python

def sum\_of\_elements(lst):

return sum(lst)

# Example usage

numbers = [1, 2, 3, 4, 5]

result = sum\_of\_elements(numbers)

print("Sum of elements:", result)

```

2. Write a Python program to multiply all numbers in a list:

```python

def multiply\_numbers(lst):

result = 1

for num in lst:

result \*= num

return result

# Example usage

numbers = [1, 2, 3, 4, 5]

result = multiply\_numbers(numbers)

print("Product of numbers:", result)

```

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

```python

def find\_smallest\_number(lst):

return min(lst)

# Example usage

numbers = [5, 3, 9, 2, 7]

result = find\_smallest\_number(numbers)

print("Smallest number:", result)

```

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

```python

def find\_largest\_number(lst):

return max(lst)

# Example usage

numbers = [5, 3, 9, 2, 7]

result = find\_largest\_number(numbers)

print("Largest number:", result)

```

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

```python

def find\_second\_largest\_number(lst):

sorted\_lst = sorted(lst)

return sorted\_lst[-2]

# Example usage

numbers = [5, 3, 9, 2, 7]

result = find\_second\_largest\_number(numbers)

print("Second largest number:", result)

```

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

```python

def find\_n\_largest\_elements(lst, n):

sorted\_lst = sorted(lst, reverse=True)

return sorted\_lst[:n]

# Example usage

numbers = [5, 3, 9, 2, 7]

result = find\_n\_largest\_elements(numbers, 3)

print("N largest elements:", result)

```

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

```python

def print\_even\_numbers(lst):

for num in lst:

if num % 2 == 0:

print(num)

# Example usage

numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("Even numbers:")

print\_even\_numbers(numbers)

```

8. Write a Python program to print odd numbers in a list:

```python

def print\_odd\_numbers(lst):

for num in lst:

if num % 2 != 0:

print(num)

# Example usage

numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("Odd numbers:")

print\_odd\_numbers(numbers)

```

9. Write a Python program to remove empty lists from a list:

```python

def remove\_empty\_lists(lst):

return [x for x in lst if x]

# Example usage

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

result = remove\_empty\_lists(my\_list)

print("List after removing empty lists:", result)

```

10. Write a Python program to clone or copy a list:

```python

def clone\_list(lst):

return lst.copy()

# Example usage

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

cloned\_list = clone\_list(original\_list)

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

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

```

11. Write a Python program to count occurrences of an element in a list:

```python

def count\_occurrences(lst, element):

return lst.count(element)

# Example usage

numbers = [1, 2, 3, 4, 2, 2, 5]

element = 2

result = count\_occurrences(numbers, element)

print("Occurrences of", element, ":", result)

```

These programs should help you perform the specified tasks with lists in Python.