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?

1. Sum of elements in a list:

python
```
def sum_of_list(lst):
    """
    Returns the sum of all elements in a given list.
    """
    sum = 0
    for i in lst:
        sum += i
    return sum


# Example usage
lst = [1, 2, 3, 4, 5]
print(sum_of_list(lst))  # Output: 15
```

2. Multiplication of all numbers in a list:

python
```
def multiply_list(lst):
    """
    Returns the multiplication of all elements in a given list.
    """
    result = 1
    for i in lst:
        result *= i
    return result


# Example usage
lst = [1, 2, 3, 4, 5]
print(multiply_list(lst))  # Output: 120
```

3. Smallest number in a list:

python
```python
def smallest_number(lst):
    """
    Returns the smallest number in a given list.
    """
    min = lst[0]
    for i in lst:
        if i < min:
            min = i
    return min


# Example usage
lst = [10, 20, 3, 4, 5]
print(smallest_number(lst))  # Output: 3
```

4. Largest number in a list:

python
```python
def largest_number(lst):
    """
    Returns the largest number in a given list.
    """
    max = lst[0]
    for i in lst:
        if i > max:
            max = i
    return max


# Example usage
lst = [10, 20, 3, 4, 50]
print(largest_number(lst))  # Output: 50
```

5. Second largest number in a list:

python
```python
def second_largest_number(lst):
    """
    Returns the second largest number in a given list.
    """
    max1 = max2 = lst[0]
```

```python
    for i in lst:
        if i > max1:
            max2 = max1
            max1 = i
        elif i > max2 and i != max1:
            max2 = i
    return max2


# Example usage
lst = [10, 20, 3, 4, 50]
print(second_largest_number(lst))  # Output: 20
```

6. N largest elements from a list:

python
```python
def n_largest_elements(lst, n):
    """
    Returns the N largest elements in a given list.
    """
    lst.sort(reverse=True)
    return lst[:n]


# Example usage
lst = [10, 20, 3, 4, 50]
n = 3
print(n_largest_elements(lst, n))  # Output: [50, 20, 10]
```

7. Even numbers in a list:

python
```python
def even_numbers(lst):
    """
    Returns a list of even numbers from a given list.
    """
    return [i for i in lst if i % 2 == 0]


# Example usage
lst = [1, 2, 3, 4, 5]
print(even_numbers(lst))  # Output: [2, 4]
```

8. Odd numbers in a list:

```python
def odd_numbers(lst):
    """
    Returns a list of odd numbers from a given list.
    """
    return [i for i in lst if i % 2 != 0]

# Example usage
lst = [1, 2, 3, 4, 5]
print(odd_numbers(lst))  #
```