

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

Soln:

```
my_list = [10, 20, 30, 40, 50]

sum_of_elements = sum(my_list)

print("Sum of elements in the list:", sum_of_elements)
```

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

Soln;

```
my_list = [10, 20, 30, 40, 50]

product = 1

for number in my_list:
    product *= number

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

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

Soln;

```
my_list = [10, 5, 20, 15, 25]

smallest_number = min(my_list)

print("Smallest number in the list:", smallest_number)
```

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

Soln:

```
my_list = [10, 5, 20, 15, 25]
largest_number = max(my_list)
print("Largest number in the list:", largest_number)
```

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

Soln:

```
my_list = [10, 5, 20, 15, 25]

largest_number = max(my_list)

my_list.remove(largest_number)

second_largest_number = max(my_list)

print("Second largest number in the list:", second_largest_number)
```

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

Soln:

```
def find_nth_largest_element(my_list, n):
    # Removing duplicates and sort the list in descending order
    my_list = sorted(list(set(my_list)), reverse=True)

    # Return the nth largest element
    return my_list[n-1] if n <= len(my_list) else None
```

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

Soln:

```
def print_even_numbers(my_list):
    for num in my_list:
        if num % 2 == 0:
            print(num)
```

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

Soln:

```
def print_odd_numbers(my_list):
    for num in my_list:
        if num % 2 != 0:
            print(num)
```

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

Soln;

```
l = [], 12, 31, [1,2, -23] , [1], [], [123.23], [], 2, 321]
```

```
result = []
for i in l:
    if type(i) == list:
        if len(i) != 0:
            result.append(i)
    else:
        result.append(i)

result
```

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

Soln:

```
original_list = [1, 2, 3, 4, 5]
new_list = original_list.copy()
```