List Assignment

1. Write a Python program : Ways to find length of list

2. Find Maximum of two numbers in Python

Given two numbers, write a Python code to find the Maximum of these two numbers.

Examples:

```
Input: a = 2, b = 4
Output: 4


Input: a = -1, b = -4
Output: -1
```

3. Check if element exists in list in Python

Example:

```
list = test_list = [1, 6, 3, 5, 3, 4]
Input: 3   # Check if 3 exist or not.
Output: True


Input: 7   # Check if 7 exist or not.
Output: False
```

4. Count occurrences of an element in a list in Python

Examples:

```
Input: lst = [15, 6, 7, 10, 12, 20, 10, 28, 10], x = 10
Output: 3
Explanation: 10 appears three times in given list.

Input: lst = [8, 6, 8, 10, 8, 20, 10, 8, 8], x = 16
Output: 0
Explanation: 16 appears zero times in given list.
```

5. Find sum and average of List in Python

Examples:

```
Input: [4, 5, 1, 2, 9, 7, 10, 8]
Output:
sum =  46
average =  5.75

Input: [15, 9, 55, 41, 35, 20, 62, 49]
Output:
sum =  286
average =  35.75
```

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

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

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

10. Write a Python program to find second smallest number in a list

11. Write a Python program to interchange first and last elements in a list

Given a list, write a Python program to swap first and last element of the list.

Examples:

```
Input : [12, 35, 9, 56, 24]
Output : [24, 35, 9, 56, 12]

Input : [1, 2, 3]
Output : [3, 2, 1]
```

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

13. Write a Python program to print odd numbers in a list

14. Write Python program to count positive and negative numbers in a list

15. Remove multiple elements from a list in Python