

1. Write a Python program to sum all the items in a list.

```
def sum_of_list(lst):
    total = 0
    for item in lst:
        total += item
    return total
my_list = [1, 2, 3, 4, 5]
print(sum_of_list(my_list))
```

2. Write a Python program to traverse a given list in reverse order, and print the elements with the original index. Original list: ['red', 'green', 'white', 'black'] Traverse the said list in reverse order: black white green red

```
def reverse_traverse(lst):
    for i in range(len(lst)-1, -1, -1):
        print(f"Index {i}: {lst[i]}")
my_list = ['red', 'green', 'white', 'black']
reverse_traverse(my_list)
```

3. Write a Python program to get the largest and smallest number from a list without builtin functions.

```
def find_largest_and_smallest(lst):
    largest = lst[0]
    smallest = lst[0]
    for num in lst:
        if num > largest:
            largest = num
        if num < smallest:
            smallest = num
    return largest, smallest
my_list = [3, 1, 4, 1, 5, 9, 2, 6]
largest, smallest = find_largest_and_smallest(my_list)
print(f"Largest: {largest}, Smallest: {smallest}")
```

4. Write a Python program to find duplicate values from a list and display those.

```
def find_duplicates(lst):
    duplicates = []
    seen = set()
    for item in lst:
        if item in seen and item not in duplicates:
            duplicates.append(item)
        seen.add(item)
    return duplicates
my_list = [1, 2, 3, 4, 4, 5, 2, 6]
print(find_duplicates(my_list))
```

5. Write a Python program to split a given list into two parts where the length of the first part of the list is given. Original list: [1, 1, 2, 3, 4, 4, 5, 1] Length of the first part of the list: 3 Spltited the said list into two parts: ([1, 1, 2], [3, 4, 4, 5, 1])

```
def split_list(lst, length_of_first_part):  
    part1 = lst[:length_of_first_part]  
    part2 = lst[length_of_first_part:]  
    return part1, part2  
my_list = [1, 1, 2, 3, 4, 4, 5, 1]  
length_of_first_part = 3  
part1, part2 = split_list(my_list, length_of_first_part)  
print(part1, part2)
```