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

def sum\_list(items):

total = 0

for item in items:

total += item

return total

# Example usage

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

print("Sum of the list:", sum\_list(my\_list))

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

def find\_largest\_smallest(numbers):

largest = numbers[0]

smallest = numbers[0]

for num in numbers:

if num > largest:

largest = num

if num < smallest:

smallest = num

return largest, smallest

# Example usage

my\_list = [4, 7, 1, 9, 3]

largest, smallest = find\_largest\_smallest(my\_list)

print("Largest:", largest)

print("Smallest:", smallest)

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

def find\_duplicates(lst):

duplicates = []

for i in range(len(lst)):

if lst[i] in lst[:i] and lst[i] not in duplicates:

duplicates.append(lst[i])

return duplicates

# Example usage

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

print("Duplicate values:", find\_duplicates(my\_list))

1. 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 Splitted the said list into two parts: ([1, 1, 2], [3, 4, 4, 5, 1])

def split\_list(lst, length\_first\_part):

part1 = lst[:length\_first\_part]

part2 = lst[length\_first\_part:]

return part1, part2

# Example usage

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

first\_part\_length = 3

result = split\_list(original\_list, first\_part\_length)

print("Splitted the said list into two parts:", result)

1. 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"{lst[i]} (original index: {i})")

# Example usage

colors = ['red', 'green', 'white', 'black']

print("Traverse the said list in reverse order:")

reverse\_traverse(colors)