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

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

list\_sum = sum(my\_list)

print("The sum of elements in the list is:", list\_sum)

1. **Write a Python program to Multiply all numbers in the list?**

def multiply\_list(numbers):

result = 1

for num in numbers:

result \*= num

return result

# example usage

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

result = multiply\_list(my\_list)

print(result) # Output: 120

1. **Write a Python program to find smallest number in a list?**

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

smallest = min(my\_list)

print(smallest) # Output: 1

1. **Write a Python program to find largest number in a list?**

numbers = [10, 20, 5, 40, 50]

# find the largest number in the list using the max() function

largest\_number = max(numbers)

# print the largest number

print("The largest number in the list is:", largest\_number)

1. **Write a Python program to find second largest number in a list?**

def second\_largest(numbers):

# sort the list in descending order

numbers.sort(reverse=True)

# return the second element of the sorted list

return numbers[1]

# example usage

my\_list = [10, 20, 5, 40, 30]

print("Second largest number in the list:", second\_largest(my\_list))

1. **Write a Python program to find N largest elements from a list?**

import heapq

def find\_n\_largest\_elements(numbers, n):

return heapq.nlargest(n, numbers)

# example usage

numbers = [10, 30, 25, 70, 50, 80, 90]

n = 3

result = find\_n\_largest\_elements(numbers, n)

print(f"{n} largest elements from {numbers} are: {result}")

1. **Write a Python program to print even numbers in a list?**

def even\_numbers(lst):

"""

This function takes a list as input and returns a new list containing only the even numbers from the original list.

"""

return [num for num in lst if num % 2 == 0]

# Example usage:

my\_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

even\_list = even\_numbers(my\_list)

print(even\_list)

1. **Write a Python program to print odd numbers in a List?**

numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9]

# iterate through the list using a for loop

for num in numbers:

# check if the number is odd using the modulo operator

if num % 2 != 0:

# print the odd number

print(num)

1. **Write a Python program to Remove empty List from List?**

original\_list = [1, 2, [], 3, [], [], 4, 5, [], 6]

new\_list = [x for x in original\_list if x != []]

print(new\_list)

1. **Write a Python program to Cloning or Copying a list?**

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

cloned\_list = original\_list[:]

print("Original List:", original\_list)

print("Cloned List:", cloned\_list)

1. **Write a Python program to Count occurrences of an element in a list?**

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

element = 1

count = my\_list.count(element)

print(f"The element {element} occurs {count} times in the list.")