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

my\_list = [2, 4, 6, 8, 10]

# using the sum() function to find the sum of elements in the list

sum\_of\_list = sum(my\_list)

print("Sum of elements in the list:", sum\_of\_list)

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

my\_list = [2, 4, 6, 8, 10]

# initialize the product variable to 1

product = 1

# using a for loop to multiply all elements in the list

for num in my\_list:

product \*= num

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

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

my\_list = [2, 4, 6, 8, 10]

# using the min() function to find the smallest element in the list

smallest\_num = min(my\_list)

print("Smallest element in the list:", smallest\_num)

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

my\_list = [2, 4, 6, 8, 10]

# using the max() function to find the largest element in the list

largest\_num = max(my\_list)

print("Largest element in the list:", largest\_num)

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

my\_list = [2, 4, 6, 8, 10]

# using the max() function to find the largest element in the list

largest\_num = max(my\_list)

# removing the largest element from the list

my\_list.remove(largest\_num)

# using the max() function again to find the second largest element in the list

second\_largest\_num = max(my\_list)

print("Second largest element in the list:", second\_largest\_num)

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

import heapq

my\_list = [2, 4, 6, 8, 10, 12, 14, 16]

# finding the 3 largest elements in the list using the nlargest() function

n\_largest = heapq.nlargest(3, my\_list)

print("N largest elements in the list:", n\_largest)

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

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

print("Even numbers in the list:")

for num in my\_list:

if num % 2 == 0:

print(num)

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

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

print("Odd numbers in the list:")

for num in my\_list:

if num % 2 != 0:

print(num)

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

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

print("Original list:", my\_list)

my\_list = [x for x in my\_list if x]

print("List after removing empty lists:", my\_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?**

# define a list

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

# define the element to count

element = 1

# use count() method to count the occurrences

count = my\_list.count(element)

# print the count

print("The element", element, "appears", count, "time(s) in the list.")