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

nums = [1,2,3,4,5]

sum = sum(i for i in nums)

print ('sum is', sum)

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

nums = [1,2,3,4,5]

mul = 1

for i in nums:

mul = mul\*i

print ('multiplication is', mul)

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

nums = [1,2,3,4,5]

min = min(nums)

print ('smallest number is', min)

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

nums = [1,2,3,4,5]

max = max(nums)

print ('smallest number is', max)

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

nums = [1,2,3,4,5]

*#sorting the numbers in descending order, second index is second highest*

nums1 = sorted(nums,reverse=True)

print ('Second highest number is:',nums1[1])

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

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

nums1 = sorted(nums,reverse=True)

n = int(input('how many largest numbers? '))

if n>8:

print ('enter less than 9')

else:

for i in range(n):

print (nums1[i])

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

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

for i in nums:

if i%2==0:

print(i)

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

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

for i in nums:

if i%2!=0:

print(i)

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

nums = [1,2,[1,2],[]]

*#using enumerate function to fetch index of each value*

for index,value in enumerate(nums):

if value==[]: *#once an empty list is found*

nums.pop(index) *#removing it using its index*

print (nums)

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

nums = [1,2,3,4,5,6]

num1 = nums

print (nums1)

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

def count\_occurence(list,x):

i=0

for j in nums:

if j==x:

i+=1

return i

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

ele = int(input('which element? '))

print('occurences:', count\_occurence(nums,ele))