**Programming Assignment\_10**

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

l = [2, 4, 1, 5, 6, 7]

total = 0

for i in l:

total += i

print(total)

**2. Write a Python program to multiply all numbers in the list?**

l = [2, 4, 1, 5, 6, 7]

mul = 1

for i in l:

mul \*= i

print(mul)

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

l = [2, 0, 1, 1235, 6, -7123]

minimum = l[0]

for i in l:

if i < minimum:

minimum = i

print(minimum)

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

l = [2, 0, 1, 1235, 6, -7123]

maximum = l[0]

for i in l:

if i > maximum:

maximum = i

print(maximum)

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

l = [2, 0, 1, 1235, 6, -7123]

l.sort(reverse=True)

print("Second largest number:", l[1])

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

def findLarge(lst, n):

lst.sort(reverse = True)

return lst[n-1]

# 2nd Largest Element

l = [2, 0, 1, 1235, 6, -7123]

findLarge(l, 2)

# 4th Largest Element

l = [2, 0, 1, 1235, 6, -7123]

findLarge(l, 4)

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

l = [2, 0, 1, 1235, 6, -7123, 21, 54, 12, -23, -42]

[ i for i in l if i%2 == 0]

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

l = [2, 0, 1, 1235, 6, -7123, 21, 54, 12, -23, -42]

[ i for i in l if i%2 == 1]

### 9. Write a Python program to Remove empty List from List?

l = [[], 12, 31, [1,2, -23] , [1], [], [123.23], [], 2, 321]

result = []

for i in l:

if type(i) == list:

if len(i) != 0:

result.append(i)

else:

result.append(i)

result

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

list1 = [2,1, 31, 3, 412, 3, 4667, [2,3,1]]

list2 = []

for i in list1:

list2.append(i)

print(list2)

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

l = [1,1,1, 3, 4, 1, 7, 8, 6,6,2,1]

def occurrences (lst, element):

count = 0

for i in lst:

if i == element:

count += 1

return count

occurrences (l, 1)