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

And.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def sum\_of\_list(l1):

if type(l1) != list:

return ("Please enter only list data type in argument of function")

total\_sum = 0

for i in l1:

total\_sum += int(i)

print("Addition of all elements in list is ", total\_sum)

try:

sum\_of\_list([2,3,4,5,6,7])

lg.info("Function sum\_of\_list([2,3,4,5,6,7]) has been called")

except exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

And.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def product\_of\_list(l1):

if type(l1) != list:

return("Kindly enter only list type in argument")

l1 = [2,3,4]

# make note this value should not be zero or else all values will come out as zero

total\_product = 1

for i in l1:

total\_product \*= int(i)

print("Multiplication of all elements in list is ", total\_product)

try:

product\_of\_list([2,3,4])

lg.info("Function product\_of\_list([2,3,4]) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

And.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def smallest\_in\_list(\*args):

main\_list = []

for i in args:

main\_list.append(int(i))

main\_list.sort()

print("The least value in the list is :", main\_list[0])

try:

smallest\_in\_list(2,3,4,45,8,23,6,3)

lg.info("Function smallest\_in\_list([2,3,4,45,8,23,6,3]) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

And.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def largest\_in\_list(\*args):

main\_list = []

for i in args:

main\_list.append(int(i))

main\_list.sort()

print("The largest value in the list is :", main\_list[-1])

try:

largest\_in\_list(2,3,4,45,8,23,6,3)

lg.info("Function largest\_in\_list([2,3,4,45,8,23,6,3]) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def second\_largest(\*args):

main\_list = []

for i in args:

main\_list.append(int(i))

replica = set(main\_list)

replica = list(replica)

replica.sort()

replica.pop(-1)

print("The Second largest value in the list is :", replica[-1])

try:

second\_largest(2,3,4,45,45,45,23,8,23,45,6,3)

lg.info("Function secoond\_largest(2,3,4,45,45,45,23,8,23,45,6,3) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def N\_Largest\_Elements(\*args):

main\_list = []

largest = []

N = int(input("Enter How many largest values you want to display in list: "))

for i in args:

main\_list.append(i)

main\_list.sort()

main\_list.reverse()

for j in range(0,N):

largest.append(main\_list[j])

print("your requested list", largest)

try:

N\_Largest\_Elements(4,5,6,7,8,9,0,11)

lg.info("Function N\_Largest\_Elements(4,5,6,7,8,9,0,11) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def print\_even():

limit = int(input("Enter the limit to print Even Numbers: "))

even\_list = [i for i in range(1,limit+1) if i%2==0]

print(even\_list)

try:

print\_even()

lg.info("Function print\_even() has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def print\_odd():

limit = int(input("Enter the limit to print Odd Numbers: "))

odd\_list = [i for i in range(1,limit+1) if i%2!=0]

print(odd\_list)

try:

print\_odd()

lg.info("Function print\_odd() has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

# hre is the logic involved inside the function to remove empty lists

def remove\_empty\_list(\*args):

array = []

for i in args:

if i != []:

array.append(i)

print(array)

try:

remove\_empty\_list(234,[],234,"john", [], 6+3j, "gasgd")

lg.info("""Function remove\_empty\_list(234,[],234,"john", [], 6+3j, "gasgd") has been called""")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def Cloning(list\_1):

# the cloned list will be assigned the name "list\_copy"

list\_copy =[]

list\_copy = list\_1.copy()

print("The list\_copy is :",list\_copy)

try:

Cloning([1,2,3,4,5])

lg.info("Function Cloning([1,2,3,4,5]) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass

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

Ans.

import logging as lg

# importing logging so every function call of

lg.basicConfig(filename ='C:\\Users\\Home\\Johns python talent\\logging\\testlog1.log', level =lg.INFO , format = '%(asctime)s %(message)s')

def count(original\_list):

import ast

user\_choice = input("Enter the element you want to count: ")

repeater = original\_list.count(eval(user\_choice))

print("The occurances of",user\_choice,"in the list is: ",repeater )

try:

original\_list = [2,3,4,5,6,7,8,'john', 'john', 'john', 4+6j, True, [], []]

count(original\_list)

lg.info("Function Cloning([1,2,3,4,5]) has been called")

except Exception as e:

print("There was an error called: ",e)

else:

pass

finally:

pass