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**Task 1: Factorial Calculator: Write a Python program that calculates the factorial of a given number.**

#Task1 Solution

def factCalculator(n):

if n == 0:

return 1

else:

return n \* factCalculator(n-1)

while True:

try:

num=int(input('Enter a whole number:'))

if num >= 0:

break

else:

print('Please enter a whole number')

except ValueError:

print('Invalid input. Please enter whole number')

fact = factCalculator(num)

print('The factorial of', num, 'is', fact)

**OUTPUT**

Enter a whole number:-5

Please enter a whole number

Enter a whole number:6

The factorial of 6 is 720

**Task 2: Sum and Average:Create a function that takes a list of numbers as input and returns the sum and average of those numbers.**

#Task 2:

def sumAndAvg(listparam):

listLen = len(listparam)

total = sum(listparam)

avg = total/listLen

return total, avg

myList = [90, 20, 70, 40, 50, 60, 80, 30]

lsum, lavg = sumAndAvg(myList)

print('List is:', myList)

print('The sum is', lsum, 'and average is',lavg)

**Output**

List is: [90, 20, 70, 40, 50, 60, 80, 30]

The sum is 440 and average is 55.0