2810ICT Week1 PythonLab

1. Problem: Given a number n, write while and for loops that add up the numbers in the series 1,2,3,4,..., n-2, n-1, n and display the resultant sum. The number n will be input by the user of the algorithm.

Input: 10   
Output: 55 55

Solution:

n = int(input("input a number: "))  
  
total = 0  
  
for a in range(0, n+1):  
 total += a  
  
sumnums = 0  
  
while n >= 0:  
 sumnums += n  
 n -= 1  
  
print(total, sumnums)