2810ICT Week1 PythonLab

13. Problem: Say that a "clump" in a list is a series of 2 or more adjacent elements of the same value. Print the number of clumps in the given list.

Input: 1 2 2 3 4 4   
Output: 2   
Input: 1 1 2 1 1   
Output: 2   
Input: 1 1 1 1 1   
Output: 1

Solution:

nums = input("input a list of number with no spaces: ")  
  
numslist = []  
  
for a in nums:  
 numslist.append(int(a))  
  
clumps = 0  
  
i = 0  
  
while i < (len(numslist) - 1):  
 elem = 0  
 while (i + 1) < len(numslist) and numslist[i] == numslist[i+1]:  
 elem = 1  
 i += 1  
  
 if elem:  
 clumps += 1  
  
 i += 1  
  
print(clumps)