**The Python 3-Day Challenge : 2 Questions Per day**

**Day 1:**

1. Write a program which will find all such numbers which are divisible by 2 but are not a multiple of 3, between 500 and 600 (both included).The numbers obtained must be printed in a comma-separated sequence on a single line.
2. Find the number of elements in a list. Eg., l = [1, 2, 3, 4]

Num\_elemnts(l) -> 4

(You can't use len function)

**Day 2:**

1. Write a program which can compute the factorial of a given numbers. The results should be printed in a comma-separated sequence on a single line. Suppose the following input is supplied to the program: 8 Then, the output should be:40320
2. Determine the prime factors of a given positive integer  
   Construct a flat list containing the prime factors in ascending order. Example:  
   prime\_factors(315)--> [3,3,5,7]

**Day 3:**

1. Split a list into two parts; the length of the first part is given. Do not use any predefined predicates

Split\_list([a,b,c,d,e,f,g,h,i,k],3)-->>[a,b,c],[d,e,f,g,h,i,k]  
split\_list([],5)-->[]

1. Write a Python program to find the highest n-values in a dictionary.  
   Example- n = 3  
   max\_n({'a':500, 'b':5874, 'c': 560,'d':400, 'e':5000, 'f': 20}->[5874,5000,500]