**TEST FOR PYTHON**

**Question1:**

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5,

between 2000 and 3200 (both included).

The numbers obtained should be printed in a comma-separated sequence on a single line.

**Program:**

n1=[]  
**for** x **in** range(1500, 2701):  
 **if** (x%7==0) **and** (x%5==0):  
 nl.append(str(x))  
print (**','**.join(nl))

**Output:**

1505,1540,1575,1610,1645,1680,1715,1750,1785,1820,1855,1890,1925,1960,1995,2030,2065,2100,2135,2170,2205,2240,2275,2310,2345,2380,2415,2450,2485,2520,2555,2590,2625,2660,2695

**Question2:**

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.

**Program:**

**def** factorial(n):  
 **if** n == 0:  
 **return** 1  
 **else**:  
 **return** n \* factorial(n-1)  
n=int(input(**"enter a number : "**))  
print(factorial(n))

**Output:**

enter a number : 7

5040

**Question3:**

Write a program which accepts a sequence of comma-separated numbers from console and generate a list and a tuple which contains every number.

Suppose the following input is supplied to the program:

34,67,55,33,12,98

**Program:**

list=[**'34'**,**'67'**,**'55'**,**'33'**,**'12'**,**'98'**]  
print(list)  
tup=**'34'**,**'67'**, **'55'**,**'33'**, **'12'**, **'98'**print(tup)

**Output:**

['34', '67', '55', '33', '12', '98']

('34', '67', '55', '33', '12', '98')

**Question4:**

Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.

Suppose the following input is supplied to the program:

Hello world

Practice makes perfect

**Program:**

str0=**"hello world"**x=str0.upper()  
print(x)  
str0=**"practice makes perfect"**y=str0.upper()  
print(y)

**Output:**

HELLO WORLD

PRACTICE MAKES PERFECT