**TEST 1**

1.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.

**Code:**

n=[]  
**for** i **in** range(2000, 3200):  
 **if** (i%7==0) **and** (i%5!=0):  
 n.append(str(i))  
  
print(**','**.join(n))

**Output:**

2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,2268,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,2681,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,2821,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,2961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3073,3087,3094,3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199

Process finished with exit code 0

2.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.

**Code:**

**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 : 10

3628800

3.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

**Code:**

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')

4.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

**Code:**

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

**Output:**

HELLO WORLD

PRACTICE MAKES PERFECT