

Ques - 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

```
In [1]: res = []
count=0
for i in range(2000,3201):
    if(i%7==0 and i%5!=0):
        res.append(i)    #storing in a list not required as per question
        count+=1        # Counting such numbers not required as per questio
        print(i,end=",") #printing in a single line

print("\n\nTotal such numbers are = ",count)
```

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,

Total such numbers are = 138

In []:

Ques - 2

Write a Python program to accept the user's first and last name and then getting them printed in the the reverse order with a space between first name and last name

```
In [2]: first_name = input("Please input your first name = ")
last_name = input('Please input your last name = ')
print('\n'*2,"When only individual words are reversed without changing order --> ",first_name[::-1]," ",last_name[::-1])
print('\n'*2,"When whole string is reversed --> ",(first_name+" "+last_name)[::-1])
```

Please input your first name = Saras
Please input your last name = Rangaswamy

When only individual words are reversed without changing order --> saraS ymawsagnaR

When whole string is reversed --> ymawsagnaR saraS

In []:

Ques - 3

Write a Python program to find the volume of a sphere with diameter 12 cm

Formula: $V = \frac{4}{3}\pi r^3$

In [3]: `import math`

In [5]: `dia = int(input("Please input diameter in centimeter--> "))
print("Volume of sphere in cm^3 is = ",(4/3)*(math.pi * (dia*0.5)**3))`

Please input diameter in centimeter--> 12
Volume of sphere in cm^3 is = 904.7786842338603

In []:

In []:

In []: