

# Python Assignment 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.

```
In [11]: ans = []
         for i in range(2000,3201):
             if (i % 7 == 0) and (i % 5 != 0):
                 ans.append(i)

         print (ans)

[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]
```

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

```
In [18]: print("Enter your First Name")
         fname = input()
         print("Enter your Last Name")
         lname = input()
         print("Your Full Name in reverse order is")
         print(lname + " " + fname)

Enter your First Name
Ajay
Enter your Last Name
Tiwari
Your Full Name in reverse order is
Tiwari Ajay
```

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 [16]: pi = 3.1415  
r= 6  
Volume= 4/3*pi*r**3  
print('The volume of the sphere is: ',Volume)
```

The volume of the sphere is: 904.752

In [ ]: