

1. Install Jupyter notebook and run the first program and share the screenshot of the output.

In [4]: `1+1`

Out[4]: 2

2. 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]: x = []
        for i in range(2000,3201):
            if (i%7==0 and i%5!=0):
                x=x+[i]
        print(x)
```

[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]

3. 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]: print("Please enter your first name: ",end="")
        firstName=input()
        print("Please enter your last name: ",end="")
        lastName=input()
        print("Name printed in reverse order: {} {}".format(lastName,firstName))
```

Please enter your first name: Manoj
Please enter your last name: Mishra
Name printed in reverse order: Mishra Manoj

4. 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]: d=12
r=d/2
pi=22/7
v=(4/3)*(22/7)*(r**3)
print("Diameter = {}\nRadius = {}\nVolume = {}".format(d,r,v))

Diameter = 12
Radius = 6.0
Volume = 905.142857142857
```

```
In [ ]:
```