Python Basics Assignment – iNeuron

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.

Solution 1:

```
for x in range(2000,3201):
    if (x%7==0) and (x%5!=0):
        print(x, end=',')
```

Output:

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python39/python.exe "d:/Python Scripts/Test.py"
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.

Solution 2:

```
f_name=input("Enter you first name")
l_name=input("Enter you last name")

print(l_name +" "+ f_name)
```

Output:

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python39/python.exe "d:/Python Scripts/Test.py"
Enter you first name vaibhav
Enter you last name Dubey
 Dubey  vaibhav
```

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

Formula: V=4/3 * π * r 3

```
Solution 3: pi = 3.14
d=12
```

```
r= d/2
V= 4.0/3.0*pi* r**3
print('The volume of the sphere is: ',V)
```

Output:

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python39/python.exe "d:/Python Scripts/Test.py"
The volume of the sphere is:  904.3199999999999
```