

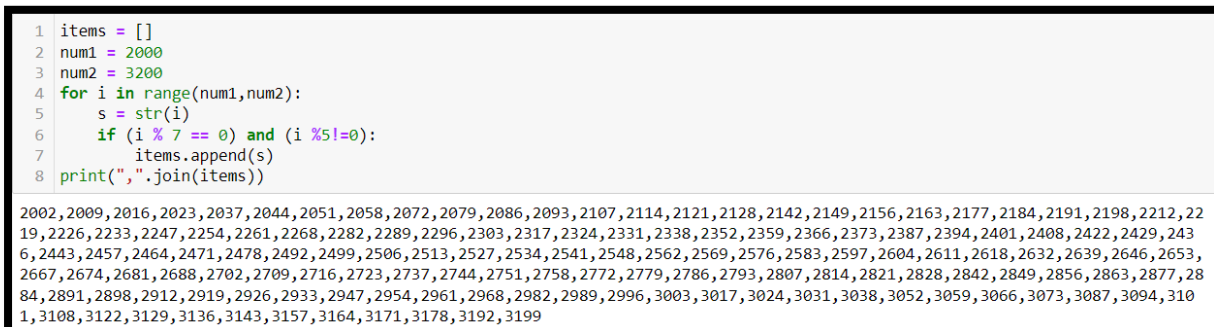
Assignment 01.

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:

```
items = []
num1 = 2000
num2 = 3200
for i in range(num1,num2):
    s = str(i)
    if (i % 7 == 0) and (i % 5 != 0):
        items.append(s)
print(", ".join(items))
```

Output:



```
1 items = []
2 num1 = 2000
3 num2 = 3200
4 for i in range(num1,num2):
5     s = str(i)
6     if (i % 7 == 0) and (i % 5 != 0):
7         items.append(s)
8 print(", ".join(items))
```

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 the reverse order with a space between first name and last name.

Code:

```
first_name = (input("Enter the first name"))
last_name = (input("Enter the last name"))
print (last_name, " ", first_name)
```

output:

```
1 first_name = (input("Enter the first name"))
2 last_name = (input("Enter the last name"))
3 print (last_name, "", first_name)
```

```
Enter the first name:raj
Enter the last name:kamal
kamal raj
```

3. Write a Python program to find the volume of a sphere with diameter 12 cm.
Formula: $V = \frac{4}{3} * \pi * r^3$

Code:

```
import math
pi = math.pi
d = 12
r = d/2
volume = (4/3 * pi * r**3)
```

Output:

```
1 volume
2
```

```
904.7786842338603
```