

## 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:

```
i=0
arr = []
for i in range(2000,3200,1):
    s=str(i)
    if(i%7 == 0):
        if(i%5 != 0):
            arr.append(s)

print(", ".join(arr))
```

Output:

```
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:

```
a=input("Enter your first name:")
b=input("Enter your last name:")

print(b, " ", a)
```

Output:

```
Enter your first name:sai
Enter your last name:teja
teja  sai
```

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
v=(4/3)*pi*r*r*r
print(v)
```

Output:

```
904.7786842338604
```