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 commaseparated sequence on a single line.

```
1 =list(range(2000,3201))
m= []
for i in 1:
    if (i%7==0 and i%5!=0):
        m.append(i)
print(m)

[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, 2 366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443, 2457, 2464, 2471, 2478, 2492, 2499, 2506, 2513, 5257, 2534, 2541, 25 48, 2562, 2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 2709, 2716, 2723, 273 7, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912, 291 9, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 3017, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 310 1, 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.

```
fname = str(input("Enter first name :")) #Enter first Name
lname = str(input("Enter last Name :")) #Enter last Name
fullname = fname +" "+ lname
print("reverse name :",fullname[::-1]) #reverse using scale concept

Enter first name :Raish
Enter last Name :Alam
reverse name : malA hsiaR
```

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

Formula: $V=4/3 * \pi * r$

```
diameter =12 #given diameter
radius =diameter/2 #radius
pi=22/7 #pi
volume = (4/3) * (pi * radius ** 3) #Volume of sphere
print("Volume of Sphere: ", round(volume,2))

Volume of Sphere: 905.14
```

4. Write a program which accepts a sequence of comma-separated numbers from console and generate a list.

5. Create the below pattern using nested for loop in Python.

6 . Write a Python program to reverse a word after accepting the input from the user. Input word: AcadGild Output: dliGdacA

```
val= str(input("Enter the value :")) #Enter AcadGild
print(f"Reverse Value of {val} is :", val[::-1])
Enter the value :AcadGild
Reverse Value of AcadGild is : dliGdacA
```

7. Write a Python Program to print the given string in the format specified in the sample output.

```
WE, THE PEOPLE OF INDIA,
having solemnly resolved to constitute India into a SOVEREIGN, !
SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC
and to secure to all its citizens
```