Assignment 1

Task 1

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

```
In [ ]: Not able to click on "LINK".
```

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.

2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,21 28,2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,226 1,2268,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,25 34,2541,2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,266 7,2674,2681,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,2821,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,29 33,2947,2954,2961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,306 6,3073,3087,3094,3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199

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 [5]:
    """
    Write a Python program to accept the user's first and last name and then getti
    ng
    them printed in the the reverse order with a space between first name and last
    name.
    """

if __name__ == '__main__':
    first_name = input("Enter User's First Name: ")
    last_name = input("Enter User's Last Name: ")
    print('{} {}'.format(last_name, first_name))

Enter User's First Name: Jagdish
    Enter User's Last Name: Toksiya
    Toksiya Jagdish
```

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

Volume of Sphere having Diameter 12: 904.78

Task 2

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

```
In [7]: """
Write a program which accepts a sequence of comma-separated numbers from conso
le and generate a list.
"""

if __name__ == '__main__':
    values = input('Enter numbers seperated by comma: ')
    ls_output = values.split(',')
    print(ls_output)

Enter numbers seperated by comma: 1,2,3,4,5,6,7
['1', '2', '3', '4', '5', '6', '7']
```

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

3. Write a Python program to reverse a word after accepting the input from the user.

```
In [9]: """
Write a Python program to reverse a word after accepting the input from the us
er.
"""

if __name__ == '__main__':
    word = input("Enter any word: ")
    print(word[::-1])

Enter any word: AcadGild
dliGdacA
```

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

```
In [12]:
         Write a Python Program to print the given string in the format specified in th
         e 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 c
         itizens
         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
         .....
         if name == ' main ':
             str input = 'WE, THE PEOPLE OF INDIA,{}having solemnly resolved to constit
         ute India into a SOVEREIGN, {} SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC{} and to s
         ecure to all its citizens{}'
             print(str_input.format('\n\t', '!\n\t\t', '\n\t\t', ''))
         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