

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 comma-separated sequence on a single line.

```
In [2]: for i in range(2000,3201):
        if i%7 == 0 and i%5!=0:
            print(i,end=',')
        print("\b")
```

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.

```
In [4]: fname = input("Input your First Name : ")
        lname = input("Input your Last Name : ")
        print ("Hello " + lname + " " + fname)
```

Input your First Name : rathish
Input your Last Name : nair
Hello nair rathish

In []:

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

```
In [5]: import math
        pi = math.pi
        #Converting Diameter into radius
        r = float(12/2)
        V = (float(4/3)*(pi)*(r)**3)
        print(V)
```

904.7786842338603

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TASK-2

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

```
In [2]: values = input("Please add some numbers in a row: ")
        l = values.split(",")
        t = tuple(l)
        print(l)
        print(t)

Please add some numbers in a row: 12345
['12345']
('12345',)
```

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

```
In [1]: n=5;
        for i in range(n):
            for j in range(i):
                print('*', end=" ")
            print('\n')

        for i in range(n,0,-1):
            for j in range(i):
                print('*', end=" ")
            print('\n')
        *
```

```
*
* *
* * *
* * * *
* * * * *
* * * * *
* * * *
* * *
* *
*
*
```

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

```
In [3]: word = input("Input a word to reverse: ")

        for char in range(len(word) - 1, -1, -1):
            print(word[char], end=" ")
        print("\n")

Input a word to reverse: ineuron
norueni
```

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

```
In [6]: to constitute India into a SOVEREIGN, ! \n\t\tSOCIALIST, SECULAR, DEMOCRATIC REPUBLIC, \n\t\t\tand to secure to all its citizens.")
```

```
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.
```

```
In [ ]: |
```