

In [5]:

```
'''
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.
'''
```

```
n=[]
```

```
for i in range(2000,3200):
    if (i%7==0) and (i%5!=0):
        n.append(str(i))
print(','.join(n))
```

```
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,2142,2149,2156,2163,
2170,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,2268,2282,2289,2296,2303,2317,2324,2331,2338,2345,
2359,2366,2373,2387,2394,2401,2408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,
2541,2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,2681,2688,2702,2709,
2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,2821,2828,2842,2849,2856,2863,2877,2884,2898,
2912,2919,2926,2933,2947,2954,2961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3079,
3087,3094,3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199
```

In [6]:

```
'''
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.
'''
```

```
f=input("First Name : ")
l=input("Last Name : ")

print(l+" "+f)
```

```
First Name : Balaganesh
Last Name : Udaykumar
Udaykumar Balaganesh
```

In [8]:

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

```
v=(4/3) * 3.14 * (12/2)**3

print(v)
```

```
904.3199999999999
```

In [3]:

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

```
n=input("Enter numbers : ")
m=n.split(',')
print(m)
```

```
Enter numbers : 1,2,3,4,5
['1', '2', '3', '4', '5']
```

In [15]:

```
'''
Create the below pattern using nested for loop in Python.
```

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
'''
```

```
for i in range(0,9):
    if(i<=4):
        for j in range(0,i+1):
            print("*", end=" ")
        print('\n')
    else:
        for i in range(i,9):
            print("*", end=" ")
        print('\n')
```

```
*

* *

* * *

* * * *

* * * * *

* * * *
* * * *
* * *
* *
*

*
'''
```

In [4]:

```
n=input("enter word : ")
m=n[::-1]
m
```

enter word : bala

Out[4]:

'alab'

In [20]:

```
'''
4. 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
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
'''
```

```
print("WE, THE PEOPLE OF INDIA,\n\thaving solemnly resolved to constitute India into a SOVEREIGN,  
!\n\t\tSOCIALIST, SECULAR, DEMOCRATIC REPUBLIC\n\t\t and 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 []: