Task 1

In [2]:

```
#Install Jupyter notebook and run the first program and share the screenshot of the output.
print('*First Program On Jupyter Notebook*')
```

```
*First Program On Jupyter Notebook*
```

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.

In [12]:

```
ls=[]
for i in range(1999,3201):
    if (i%7==0 and i%5!=0):
        ls.append(i)

print(ls)
type(ls)
```

```
[2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 21
42, 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, 242
9, 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, 271
6, 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, 300
3, 3017, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 3101, 3108, 3122, 3129, 3136, 3143,
3157, 3164, 3171, 3178, 3192, 3199]
```

Out[12]:

```
list
```

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 [4]:

```
F_name=input('Enter your First Name  :')
L_name=input('Enter your Last Name   :')
print(L_name+" "+F_name)
```

```
Enter your First Name  :Sumit
Enter your Last Name   :Hanchate
Hanchate Sumit
```

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

In [22]:

```
def diameter(d):
    r=d/2
    v=4/3*(3.14*r*r*r)
    print("Volume of sphere is {}".format(v))

diameter(12)
```

```
Volume of sphere is 904.3199999999999
```

Task 2

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

In [5]:

```
a=input('Enter Values which is separated by comma\n')
a=a.split(",")
print(list(a))
```

```
Enter Values which is separated by comma
3,7,4,5
['3', '7', '4', '5']
```

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

In [36]:

```
def star(n):
      for i in range(0, n):
           for j in range(0, i + 1):
                print('* ', end='')
           print('')

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


star(4)
```

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

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

In [2]:

```
word=input('Enter word :')
word[::-1]
```

```
Enter word :AtqFjhp
```

Out[2]:

```
'phjFqtA'
```

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

In [8]:

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

```

```