In [2]:
```
#1.Install Jupyter notebook and run the first program and share the screensho

#Program to identify all divisibles of a number

print('Type a number of your choice')
Number=int(input())
Divisors =[]
denominators=range(1,Number+1)
for N in denominators:
    if Number % N == 0:
        Divisors.append(N)
print(Number,'is divisible by', Divisors)
```

```
Type a number of your choice
675
675 is divisible by [1, 3, 5, 9, 15, 25, 27, 45, 75, 135, 225, 675]
```

In [33]:
```
# 2.Write a program which will find all such numbers which are divisible by 7
# multiple of 5, between 2000 and 3200 (both included). The numbers obtained
# in a comma-separated sequence on a single line.

#We'll start with creating an empty list for getting the required output form
#considering range upt0 3201 to include 3200 as part of range
#specifying x as the variable
#defining the criteria
#adding variable within list Y
#adding "," as per requirement in the problem for printing the results

Y=[]
range(2000,3201)
for x in range(2000,3201):
    if (x%7==0 and x%5!=0):
        Y.append(str(x))
print(','.join(Y))
```

```
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,212
8,2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,22
68,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2
408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,
2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,268
1,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,28
21,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,2
961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3073,3087,3094,
3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199
```

In [26]:
```
#3. Write a Python program to accept the user's first and last name and then
# in the the reverse order with a space between first name and last name.
Firstname= input("Your first name is - ")
Lastname = input("Your last name is - ")
print ('Your name in reverse order is - ',Firstname[::-1],"",Lastname[::-1])
```

```
Your first name is - sachin
Your last name is - tendulkar
Your name in reverse order is -  nihcas  rakludnet
```

In [25]:

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

# Program to find the volume of a sphere
#input box for diameter value
Diameter =(int(input('Please type the daimeter of the circle - ')))
#Explanation
print('We know the radius of circle = Daimeter/2')
Radius = Diameter/2
print('So the radius of the circle is - ',Radius)
print('Formula for Volume of circle = 4/3*3.14*Radius*Radius*Radius')
Volume =(4/3*3.14*Radius*Radius*Radius)
#Space before the final result
print('')
#round function used to round of the decimals
print ('Based on the input, the volume of circle is =', (round(Volume,2)),'cm
```

```
Please type the daimeter of the circle - 8
We know the radius of circle = Daimeter/2
So the radius of the circle is -  4.0
Formula for Volume of circle = 4/3*3.14*Radius*Radius*Radius

Based on the input, the volume of circle is = 267.95 cm
```