

In [1]: *#1. Install Jupyter notebook and run the first program and share the screenshot of the output.*

```
#Program to add two numbers

#First number is Val1
Val1 = int(input("Please enter first number - "))
#space between lines
print("")
#Second number is Val2
Val2=int(input("Please enter second number - "))
print("")
#Result is sum of Val1 and Val2
print('The sum is - ', Val1+Val2)
```

Please enter first number - 123

Please enter second number - 456

The sum is - 579

In [2]: *#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*

```
#We'll start with creating an empty list for getting the required output format
Y=[]
#considering range upto 3201 to include 3200 as part of range
range(2000,3201)
#specifying x as the variable
for x in range(2000,3201):
#defining the criteria
    if (x%7==0 and x%5!=0):
#adding variable within list Y
        Y.append(str(x))
#adding "," as per requirement in the problem for printing the results
print(','.join(Y))
```

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

In [3]: *#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.*

```

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

```

# 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 - 12
We know the radius of circle = Daimeter/2
So the radius of the circle is - 6.0
Formula for Volume of circle = 4/3*3.14*Radius*Radius*Radius

```

```

Based on the input, the volume of circle is = 904.32 cm

```