

## Task 1:

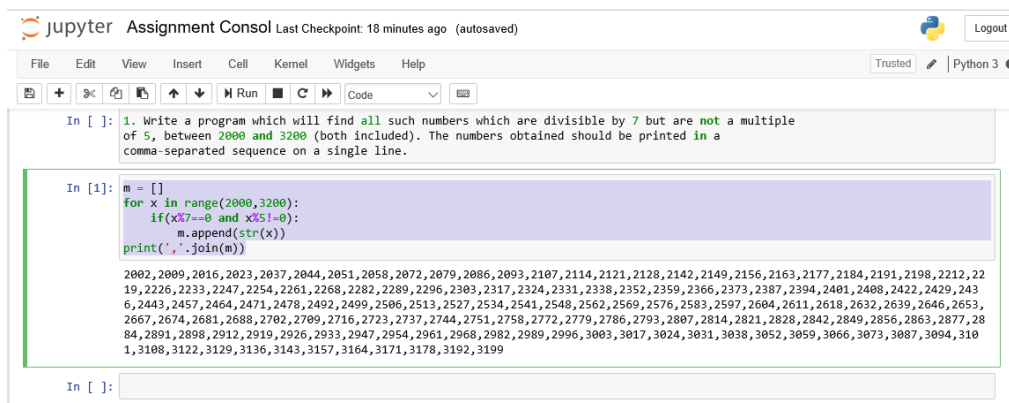
1. Install Jupyter notebook and run the first program and share the screenshot of the output.

```
In [ ]: 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 [1]: s = "My Name is D.Yuvaraj"
s

Out[1]: 'My Name is D.Yuvaraj'
```

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.



The screenshot shows a Jupyter Notebook interface with the following content:

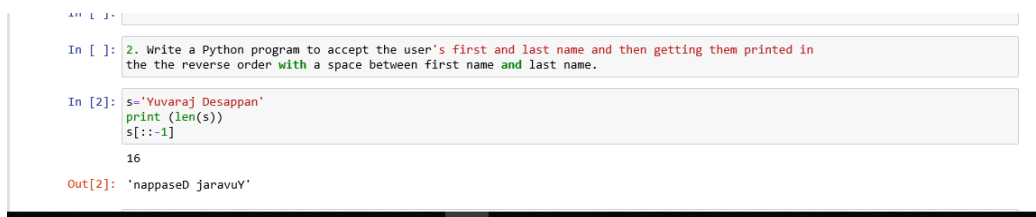
```
In [ ]: 1. Write a program which will find all such numbers which are divisible by 7 but are not a multiple
of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a
comma-separated sequence on a single line.

In [1]: m = []
for x in range(2000,3200):
    if(x%7==0 and x%5!=0):
        m.append(str(x))
print(','.join(m))

2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,2142,2149,2156,2163,2177,2184,2191,2198,2212,22
19,2226,2233,2247,2254,2261,2268,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2408,2422,2429,243
6,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,2548,2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,
2667,2674,2681,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,2821,2828,2842,2849,2856,2863,2877,28
84,2891,2898,2912,2919,2926,2933,2947,2954,2961,2968,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3073,3087,3094,310
1,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199

In [ ]:
```

3. 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.



The screenshot shows a Jupyter Notebook interface with the following content:

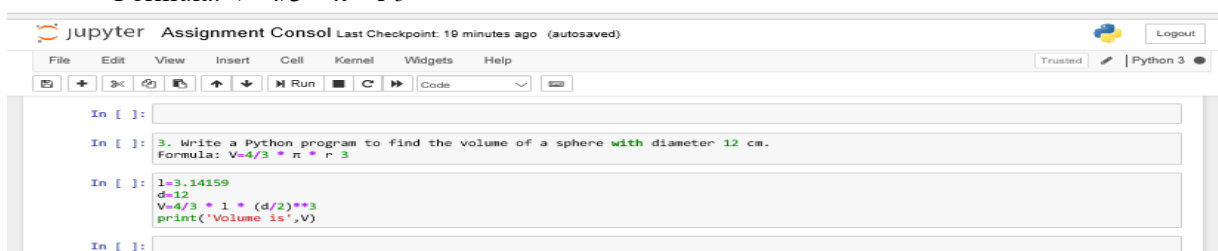
```
In [ ]: 2. Write a Python program to accept the user's first and last name and then getting them printed in
the the reverse order with a space between first name and last name.

In [2]: s='Yuvaraj Desappan'
print (len(s))
s[::-1]

16

Out[2]: 'nappasD jaravuY'
```

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



The screenshot shows a Jupyter Notebook interface with the following content:

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

In [ ]: l=3.14159
d=12
V=4/3 * l * (d/2)**3
print('Volume is',V)

In [ ]:
```

## Task 2:

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

```
In [9]: values = input("Input some comma separated numbers : ")
list = values.split(",")

print('List : ',list)
```

```
Input some comma separated numbers : 3,4,5,6,7
List :  ['3', '4', '5', '6', '7']
```

2. Create the below pattern using nested for loop in Python. (\* question)

```
In [ ]: 
In [ ]: 2. Create the below pattern using nested for loop in Python. (*,**,***,****,*****)
In [4]: m = ['*', '**', '***', '****', '*****', '*****', '*****', '****', '***', '**', '*']
for item in m:
    print(item[::-1])

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

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

```
In [22]: s = input("Enter a string: ")
print (s[::-1])

Enter a string: nandini
inidnan
```

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

```
In [4]: 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
```