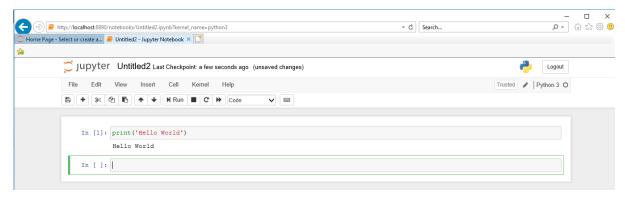
### Task 1:

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



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.

### Code:

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

```
In [10]: xx=[]
for i in range(2000, 3201):
    if (i%T=0) and (i%5!=0):
        xx.append(str(i))
print (','.join(xx))

2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,2142,2149,2156,2163,2177,2184,2191,21
98,2212,2219,2226,2233,2247,2254,2261,2268,2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,240
1,2408,2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,2548,2562,2569,2576,2583,2597,2604,
2611,2618,2632,2639,2646,2653,2667,2674,2681,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,28
14,2821,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,2961,2968,2992,2998,2998,2996,3003,301
7,3024,3031,3038,3052,3059,3066,3073,3087,3094,3101,3108,3122,3129,3136,3143,3157,3164,3171,3178,3192,3199
```

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.

#### Code:

```
fname = input("Enter the first number")
lname = input("Enter the last name")

print(fname[::-1] + " " + lname[::-1])

In [23]: fname = input("Enter the first number")
lname = input("Enter the last name")

print(fname[::-1] + " " + lname[::-1])

Enter the first numbernandini
Enter the last nameragavan
inidnan navagar
```

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

### Code:

```
d=12
r=d/2
pi = 3.1415926535897931
V= 4.0/3.0*pi* r**3
print('The volume of the sphere is: ',V)
```

```
In [19]: d=12
    r=d/2
    pi = 3.1415926535897931
    V= 4.0/3.0*pi* r**3
    print('The volume of the sphere is: ',V)

The volume of the sphere is: 904.7786842338603
```

# Task 2:

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

### Code:

```
values = input("Input some comma separated numbers : ")
list = values.split(",")
print('List : ',list)
```

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

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

2. Create the below pattern using nested for loop in Python. \* \* Code: n=5; for i in range(n): for j in range(i): print ('\* ', end="") print(") for i in range(n,0,-1): for j in range(i): print('\* ', end="") print(") In [20]: n=5; for i in range(n): for j in range(i): print ('\* ', end="") print('') for i in range (n, 0, -1): for j in range(i): print('\* ', end="") print('')

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

# **Sample Output:**

Input word: AcadGild Output: dilGdacA

### Code:

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

### Code:

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")

```
In [7]: print("WE, THE PEOPLE OF INDIA,\n\thaving solemnly resolved to constitute India into a SOVEREIGN, ! \n\t\tSOCIALIST, SEC

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
```