

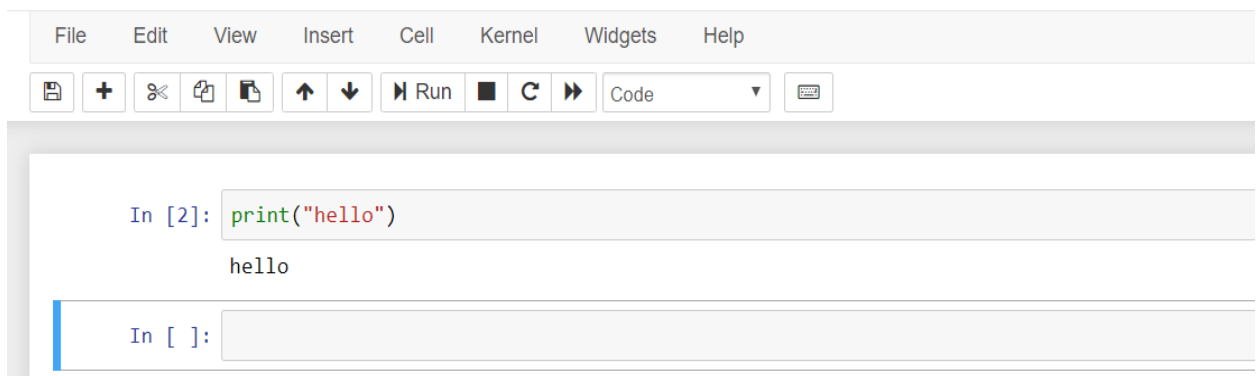
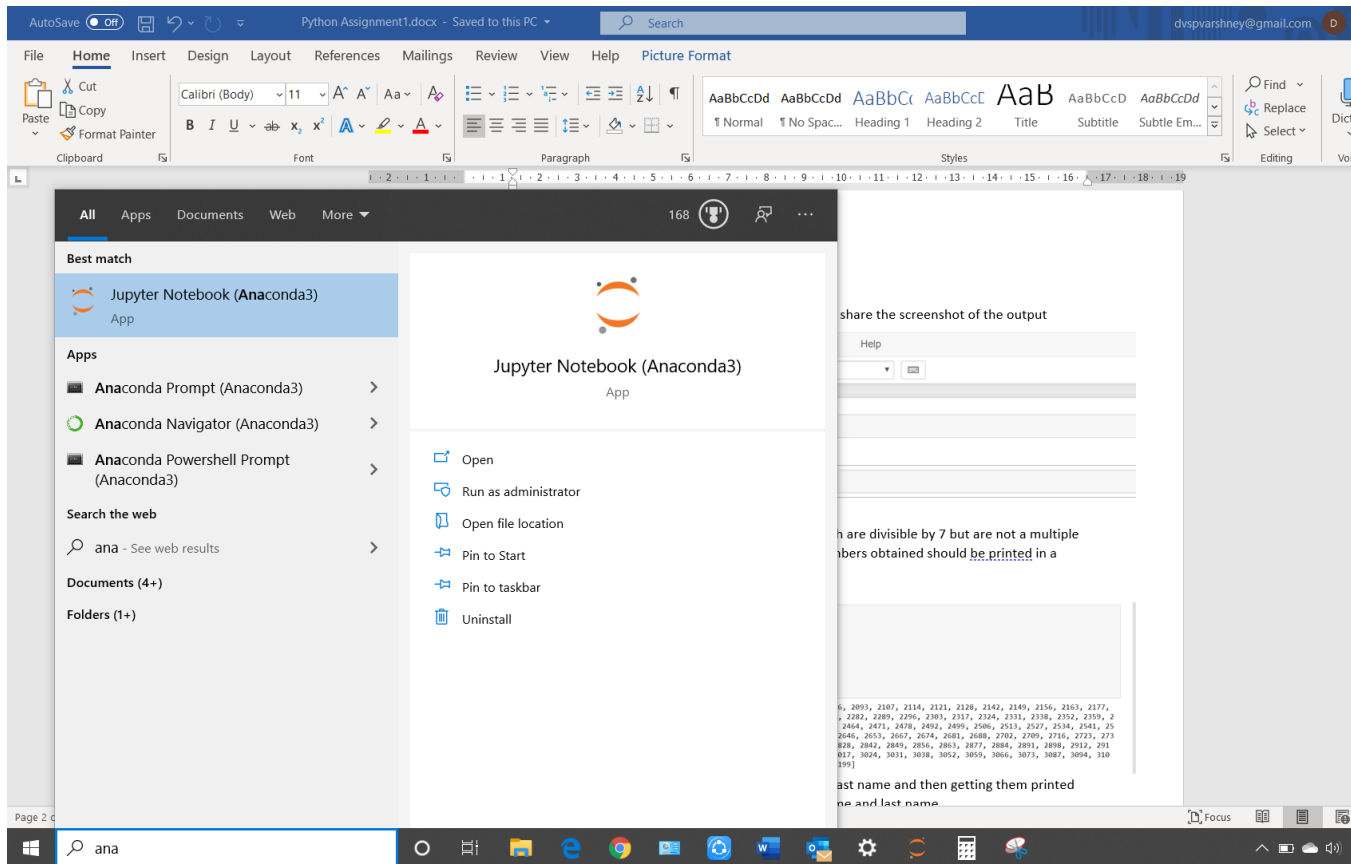
Python Assignment1

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Task1

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

Anaconda is shown in the system after installation.



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 [30]: m=[]

for i in range(2000,3201):
    if i % 7 == 0:
        if i % 5 != 0:
            m.append(i)

# m
print(m,end="")

[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, 2730, 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]
```

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.

```
In [9]: a = input("Enter first name ")
b = input("Enter last name ")

c = a + " " + b
c[::-1]
```

```
Enter first name Dheeraj
Enter last name Varshney
```

```
Out[9]: 'yenhsraV jareehD'
```

```
In [ ]:
```

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

```
In [13]: d = 12
r = d/2
pi = 3.14
A = 4/3 * pi * r * r * r
print("Area of sphere is:" , A)
```

```
Area of sphere is: 904.3199999999998
```

Task 2:

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

```
In [21]: a = input("Enter comma separated values ")
print(a.split(","))

Enter comma separated values 3,4,5,6,66,7
['3', '4', '5', '6', '66', '7']
```

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

```
In [27]: rows = int(input("Enter max star to be display on single line "))
for i in range(0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')
    print("\r")

for i in range(rows, 0, -1):
    for j in range(0, i - 1):
        print("*", end=' ')
    print("\r")
```

```
Enter max star to be display on single line 5
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
*
```

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

Sample Output:

Input word: AcadGild

Output: dliGdacA

```
In [29]: a = input("Enter the string ")
a[::-1]
```

Enter the string AcadGild

Out[29]: 'dliGdacA'

In []:

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

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\tand to secure to all its  
citizens")
```

```
In [40]: to constitute India into a SOVEREIGN,! \n\t\tSOCIALIST, SECULAR, DEMOCRATIC REPUBLIC \n\t\t\tand 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 [ ]:
```