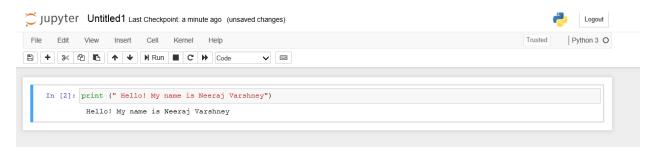
Assignment 1

Task 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.

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.

```
a = input("Enter first name: ")
b = input("Enter last name: ")
C = b + ' ' + a
C

In [9]: a = input("Enter first name: ")
b = input("Enter last name: ")
c = b + ' ' + a
c
Enter first name: Neeraj
Enter last name: Varshney
Out[9]: 'Varshney Neeraj'
```

4. Write a Python program to find the volume of a sphere with diameter 12 cm.

```
d= 12
r= d/2
```

Volume = (4/3)*3.14*(r**3) print("Volume of Sphere having diameter",d,"cm is :",Volume)

Task 2:

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

```
a= input("Enter 5 numbers: ")
print(a.split(','))
```

Formula: $V=4/3 * \pi * r 3$

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

*
* * *
* * * *
* * * * *
* * * * *

```
for i in range(0,5):
  for j in range(0,i+1):
    print("*", end=" ")
  print(" ")
for i in range(5,0,-1):
  for j in range(0,i-1):
    print("*", end = " ")
  print(" ")
          for i in range(0,5):
              for j in range(0,i+1):
               print("*", end=" ")
              print(" ")
          for i in range(5,0,-1):
              for j in range(0,i-1):
                 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

a= input("Enter any word: ")

a[::-1]
```

```
: a= input("Enter any word: ")
a[::-1]
Enter any word: AcadGild
: 'dliGdacA'
```

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

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