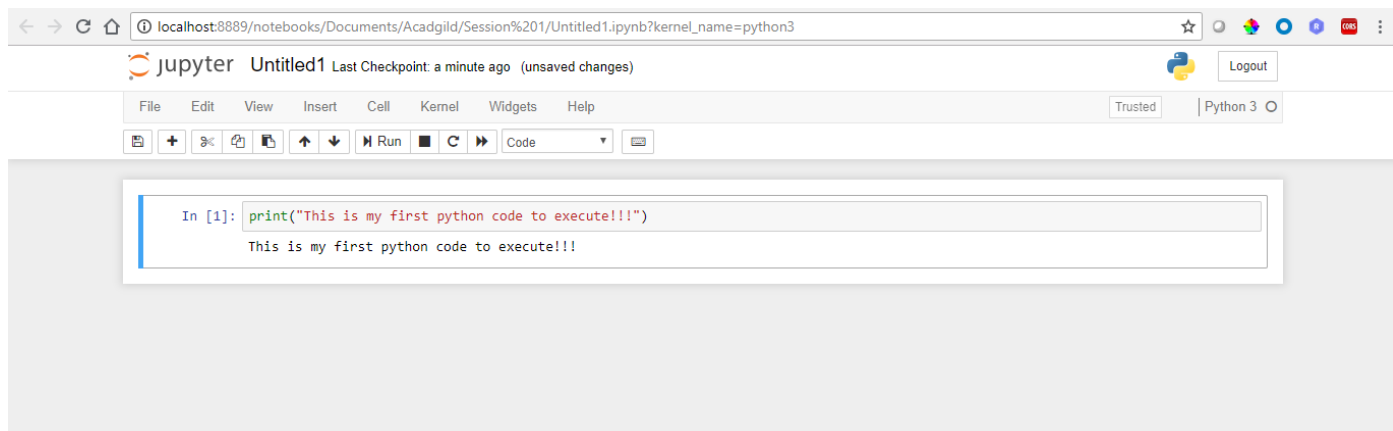


# Data Science Masters Session1:Assignment1

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



In [11]: *# 2) Write a program which will find all such numbers which are divisible by 7 but are not  
# multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be p  
# in a comma-separated sequence on a single line.*

```
# Solution:  
numList = list(range(2000,3200))           # Forming List of Nos for the given range...  
resList = []  
for num in numList:  
    if (num % 7 == 0) and (num % 5 != 0):    # Checking the given conditions...  
        resList.append(num)  
print(*resList, sep=',')                   # Printing the results in a comma-separated seq
```

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 [1]: # 3) Write a Python program to accept the user's first and Last name and then getting them
#       in the the reverse order with a space between first name and last name.

# Solution:
# Getting inputs from user...
firstName = input("Enter the First Name... ")
lastName = input("Enter the Last Name... ")
def reverse(name):                                     # Defining fuction...
    rev_char = ""
    for char in name:
        rev_char = char + rev_char
    return rev_char                                   # Returing the name in reversed order...
print(reverse(firstName),reverse(lastName))           # Printing each name in reversed order...
print(lastName,firstName)                             # Printing last name and first name...
```

```
Enter the First Name... Murali
Enter the Last Name... Karthikeyan
ilaruM nayekihtraK
Karthikeyan Murali
```

```
In [3]: # 4) Write a Python program to find the volume of a sphere with diameter 12 cm.

# Solution:
import math                                           # Importing Math Library to use certain mathemat
def calculateVolume(rad):
    valueOfPI = math.pi
    return 4/3*valueOfPI*rad**3
diameter = 12                                       # Given Diameter value is 12 cm...
radius = diameter / 2
volume = calculateVolume(radius)                   # Calculating Volume of a sphere for a
print("Volume of a sphere =",math.ceil(volume*100)/100,"cm\N{SUPERSCRIPT THREE}") # Roundin
```

```
Volume of a sphere = 904.78 cm³
```