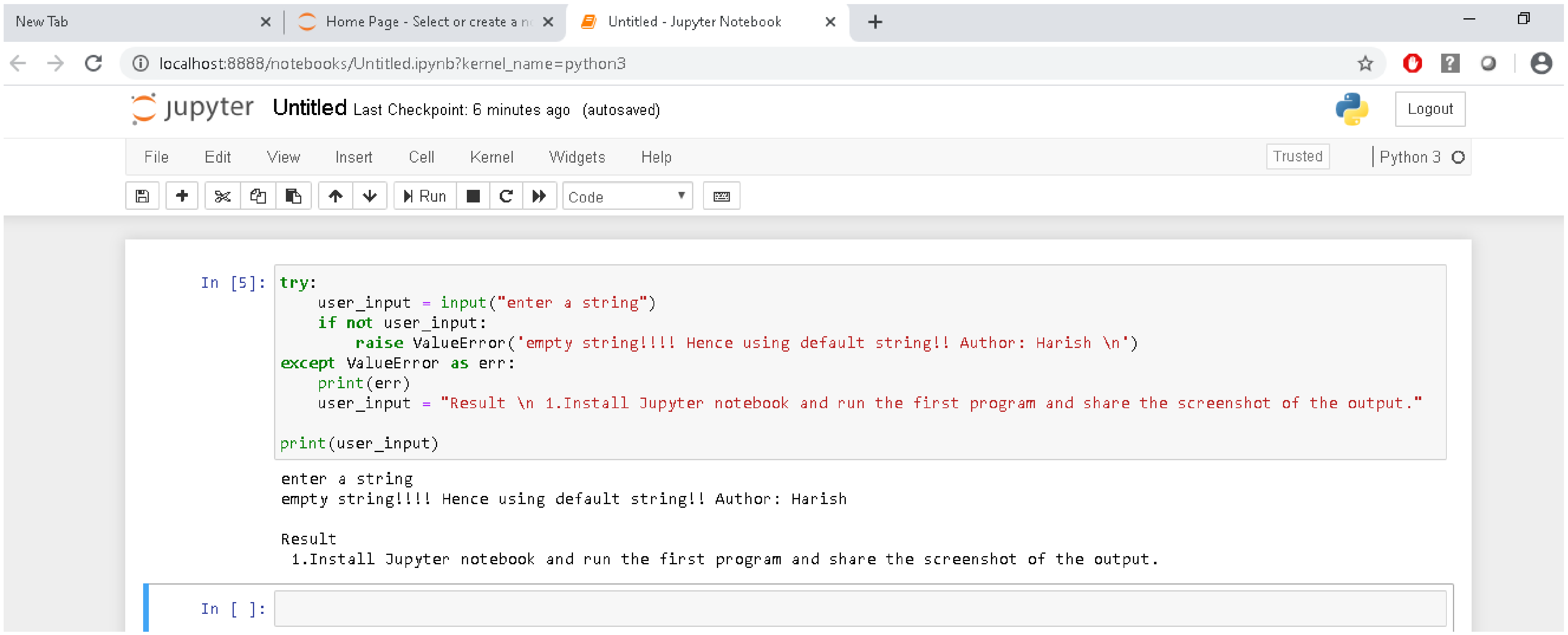
This task1:1 was run in jupyter ; Other remaining tasks were run in PyCharm


New Tab
Home Page - Select or create a n
Untitled - Jupyter Notebook
localhost:8888/notebooks/Untitled.ipynb?kernel_name=python3
jupyter Untitled Last Checkpoint: 6 minutes ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3
Run
Code

In [5]:

```
try:
    user_input = input("enter a string")
    if not user_input:
        raise ValueError('empty string!!!! Hence using default string!! Author: Harish \n')
except ValueError as err:
    print(err)
    user_input = "Result \n 1.Install Jupyter notebook and run the first program and share the screenshot of the output."

print(user_input)
```

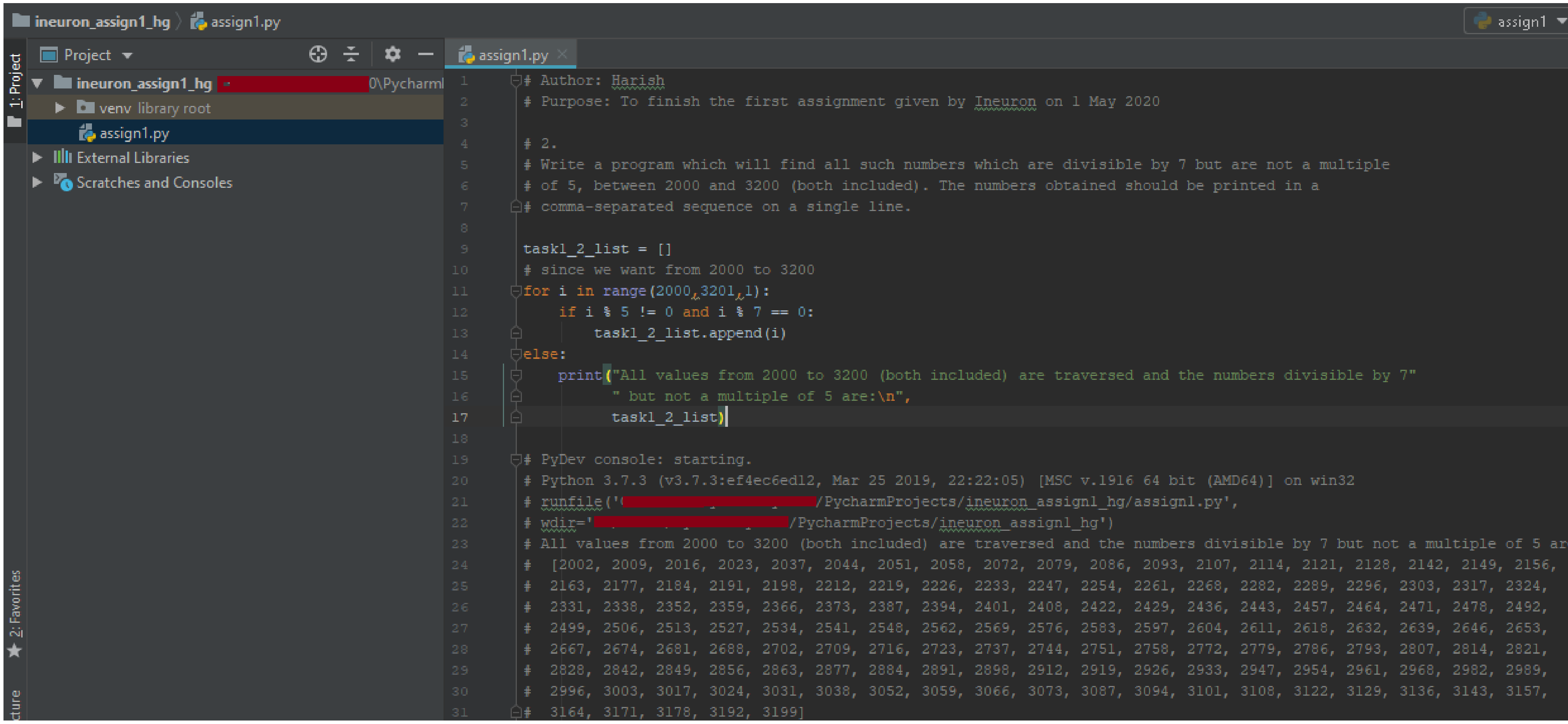
```
enter a string
empty string!!!! Hence using default string!! Author: Harish

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

In [ ]:

Have used two versions to solve the same . One of the answers doesn't have the function taught in the session , so wasn't sure if that would be acceptable for this , so have pasted both approaches

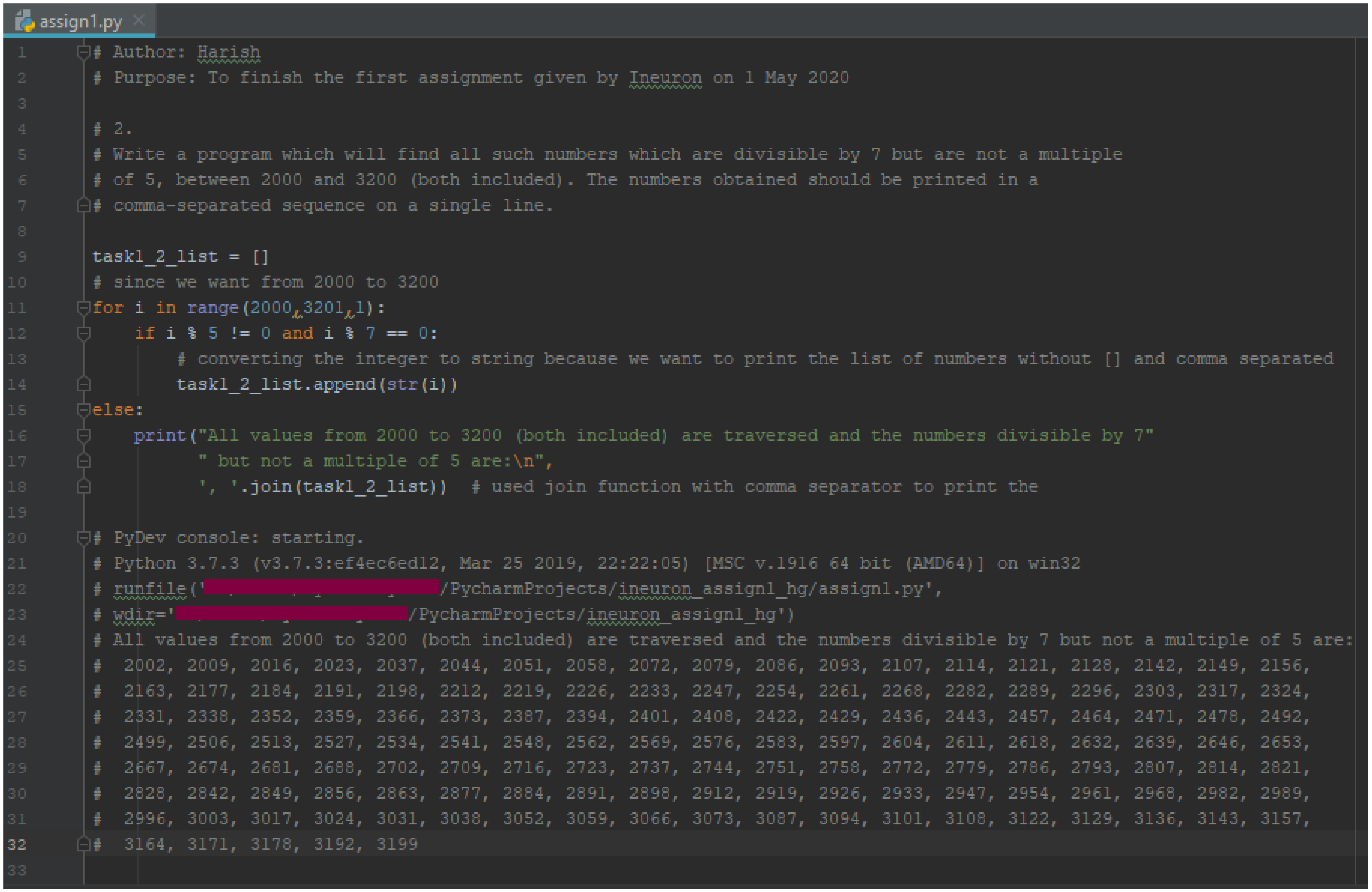
Approach 1: representing output as a list;

Please note, all the values are printed in a single line but since so many values couldn't be showed in this snapshot, have copied the results in separate lines with comments from the pycharm output console to the code editor



```python
# Author: Harish
# Purpose: To finish the first assignment given by Ineuron on 1 May 2020

# 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.

task1_2_list = []
# since we want from 2000 to 3200
for i in range(2000,3201,1):
    if i % 5 != 0 and i % 7 == 0:
        task1_2_list.append(i)
else:
    print("All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7"
          " but not a multiple of 5 are:\n",
          task1_2_list)

# PyDev console: starting.
# Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
# runfile('[redacted]/PycharmProjects/ineuron_assign1_hg/assign1.py',
# wdir='[redacted]/PycharmProjects/ineuron_assign1_hg')
# All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7 but not a multiple of 5 ar
#  [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]
```

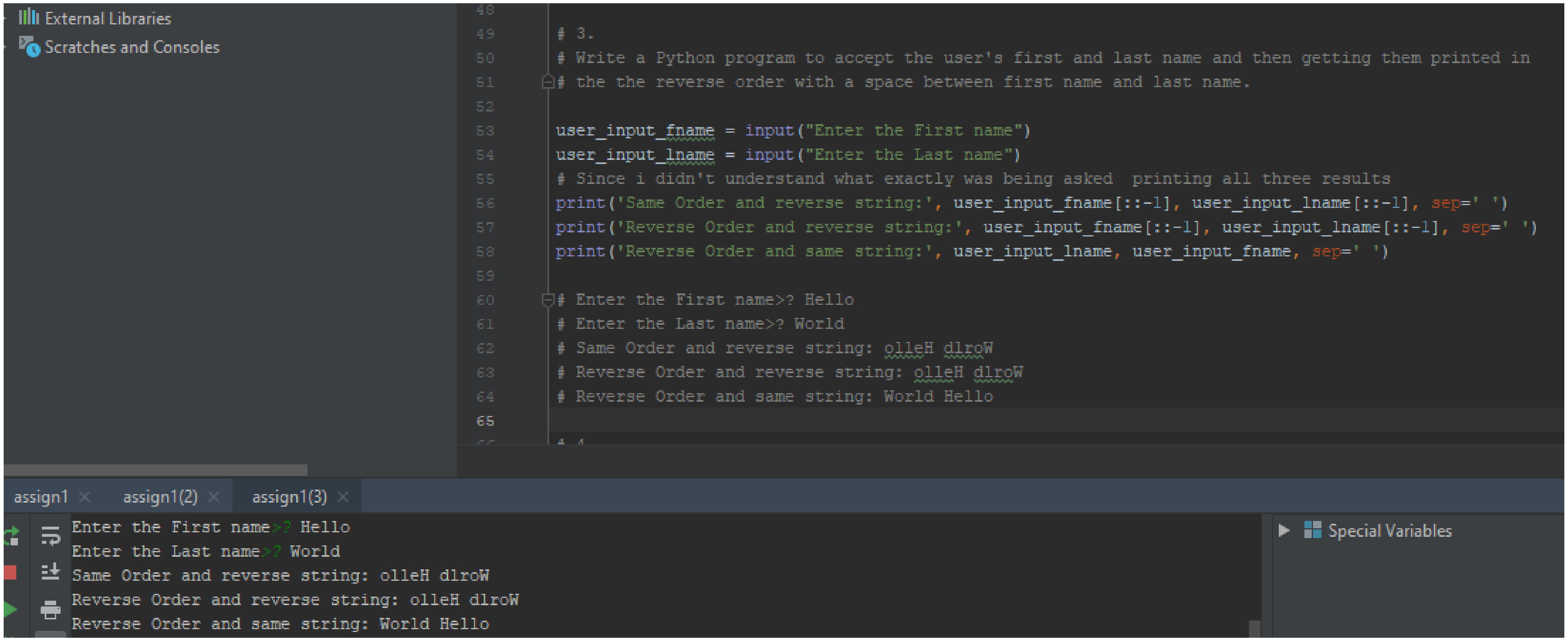
Approach 2: Using Join method and displaying output as just a string with commas



assign1.py

```python
# Author: Harish
# Purpose: To finish the first assignment given by Ineuron on 1 May 2020

# 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.

task1_2_list = []
# since we want from 2000 to 3200
for i in range(2000,3201,1):
    if i % 5 != 0 and i % 7 == 0:
        # converting the integer to string because we want to print the list of numbers without [] and comma separated
        task1_2_list.append(str(i))
else:
    print("All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7"
          " but not a multiple of 5 are:\n",
          ', '.join(task1_2_list))  # used join function with comma separator to print the

# PyDev console: starting.
# Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
# runfile('[redacted]/PycharmProjects/ineuron_assign1_hg/assign1.py',
# wdir='[redacted]/PycharmProjects/ineuron_assign1_hg')
# All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7 but not a multiple of 5 are:
#  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
```

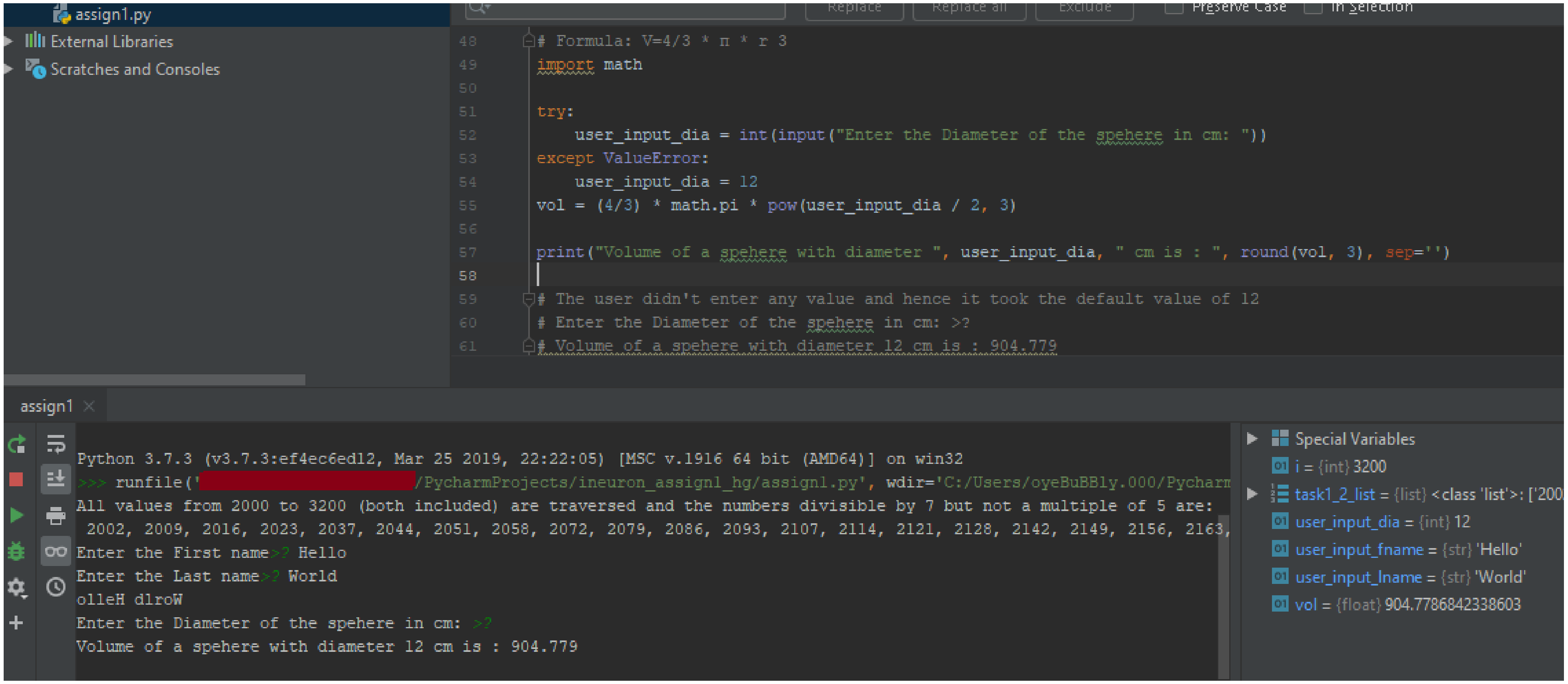
Task1 :3



```python
# 3.
# 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.

user_input_fname = input("Enter the First name")
user_input_lname = input("Enter the Last name")
# Since i didn't understand what exactly was being asked  printing all three results
print('Same Order and reverse string:', user_input_fname[::-1], user_input_lname[::-1], sep=' ')
print('Reverse Order and reverse string:', user_input_fname[::-1], user_input_lname[::-1], sep=' ')
print('Reverse Order and same string:', user_input_lname, user_input_fname, sep=' ')

# Enter the First name>? Hello
# Enter the Last name>? World
# Same Order and reverse string: olleH dlroW
# Reverse Order and reverse string: olleH dlroW
# Reverse Order and same string: World Hello
```

```
Enter the First name>? Hello
Enter the Last name>? World
Same Order and reverse string: olleH dlroW
Reverse Order and reverse string: olleH dlroW
Reverse Order and same string: World Hello
```

Task1:4

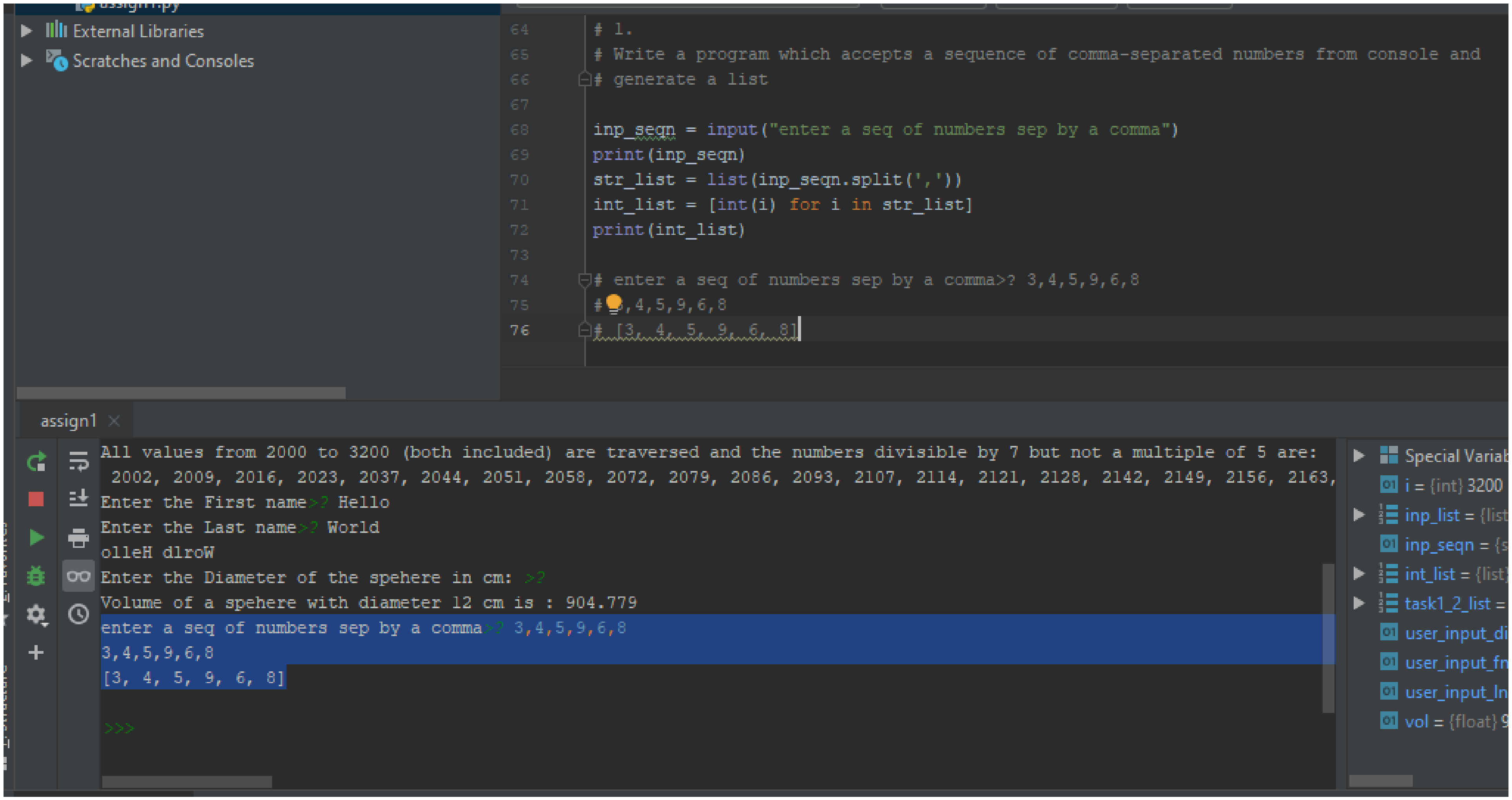


```python
# Formula: V=4/3 * π * r 3
import math

try:
    user_input_dia = int(input("Enter the Diameter of the spehere in cm: "))
except ValueError:
    user_input_dia = 12
vol = (4/3) * math.pi * pow(user_input_dia / 2, 3)

print("Volume of a spehere with diameter ", user_input_dia, " cm is : ", round(vol, 3), sep='')

# The user didn't enter any value and hence it took the default value of 12
# Enter the Diameter of the spehere in cm: >?
# Volume of a spehere with diameter 12 cm is : 904.779
```

```
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
>>> runfile('[redacted]/PycharmProjects/ineuron_assign1_hg/assign1.py', wdir='C:/Users/oyeBuBBly.000/Pycharm
All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7 but not a multiple of 5 are:
 2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163,
Enter the First name>? Hello
Enter the Last name>? World
olleH dlroW
Enter the Diameter of the spehere in cm: >?
Volume of a spehere with diameter 12 cm is : 904.779
```

```
Special Variables
i = {int} 3200
task1_2_list = {list} <class 'list'>: ['200
user_input_dia = {int} 12
user_input_fname = {str} 'Hello'
user_input_lname = {str} 'World'
vol = {float} 904.7786842338603
```

Task2:1



External Libraries
Scratches and Consoles

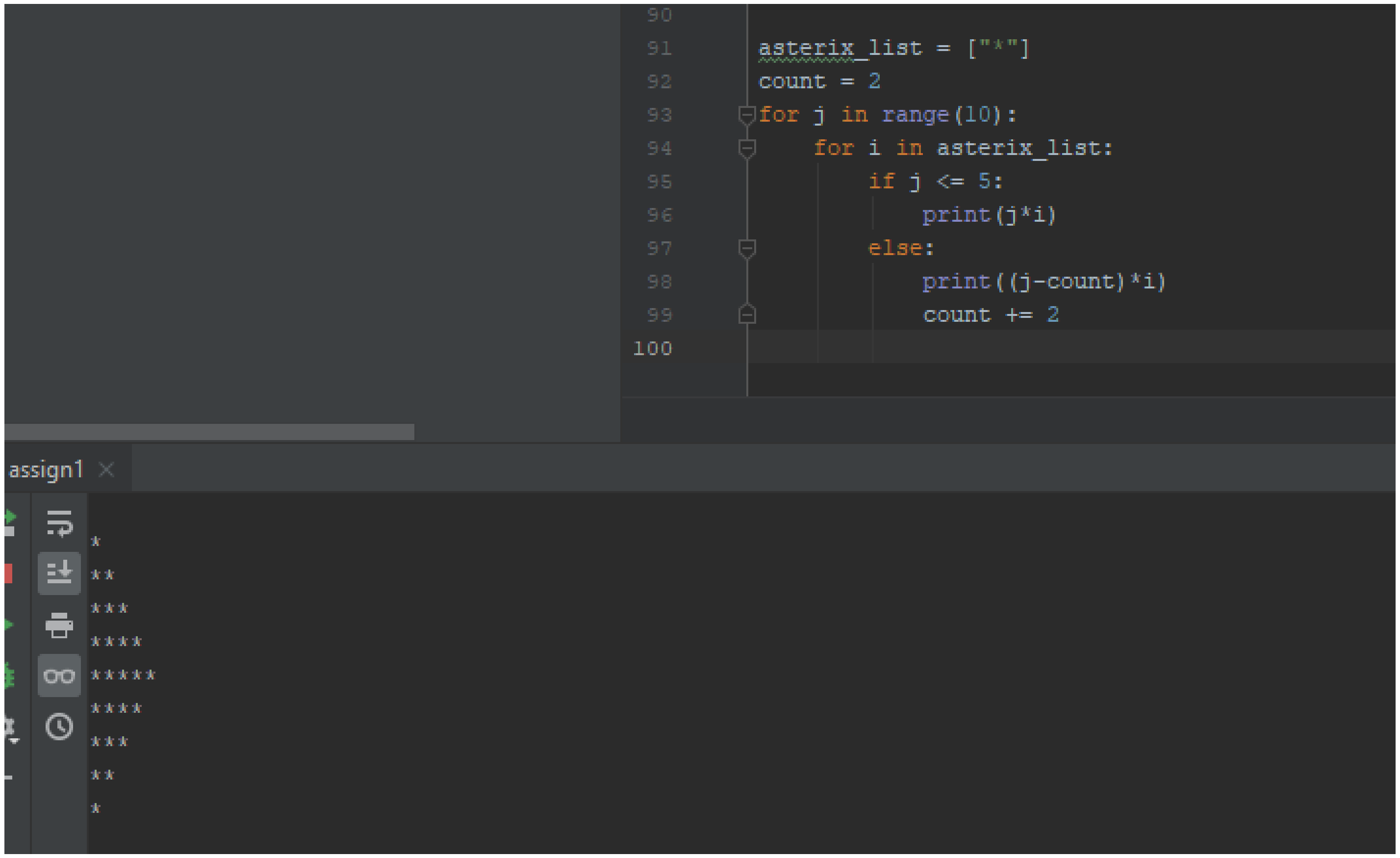
```
# 1.
# Write a program which accepts a sequence of comma-separated numbers from console and
# generate a list

inp_seqn = input("enter a seq of numbers sep by a comma")
print(inp_seqn)
str_list = list(inp_seqn.split(','))
int_list = [int(i) for i in str_list]
print(int_list)

# enter a seq of numbers sep by a comma>? 3,4,5,9,6,8
#3,4,5,9,6,8
# [3, 4, 5, 9, 6, 8]
```

assign1

```
All values from 2000 to 3200 (both included) are traversed and the numbers divisible by 7 but not a multiple of 5 are:
 2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163,
Enter the First name>? Hello
Enter the Last name>? World
olleH dlroW
Enter the Diameter of the sphere in cm: >?
Volume of a sphere with diameter 12 cm is : 904.779
enter a seq of numbers sep by a comma>? 3,4,5,9,6,8
3,4,5,9,6,8
[3, 4, 5, 9, 6, 8]

>>>
```

```
Special Variab
i = {int} 3200
inp_list = {list
inp_seqn = {s
int_list = {list}
task1_2_list =
user_input_di
user_input_fr
user_input_ln
vol = {float} 9
```

Task2:2

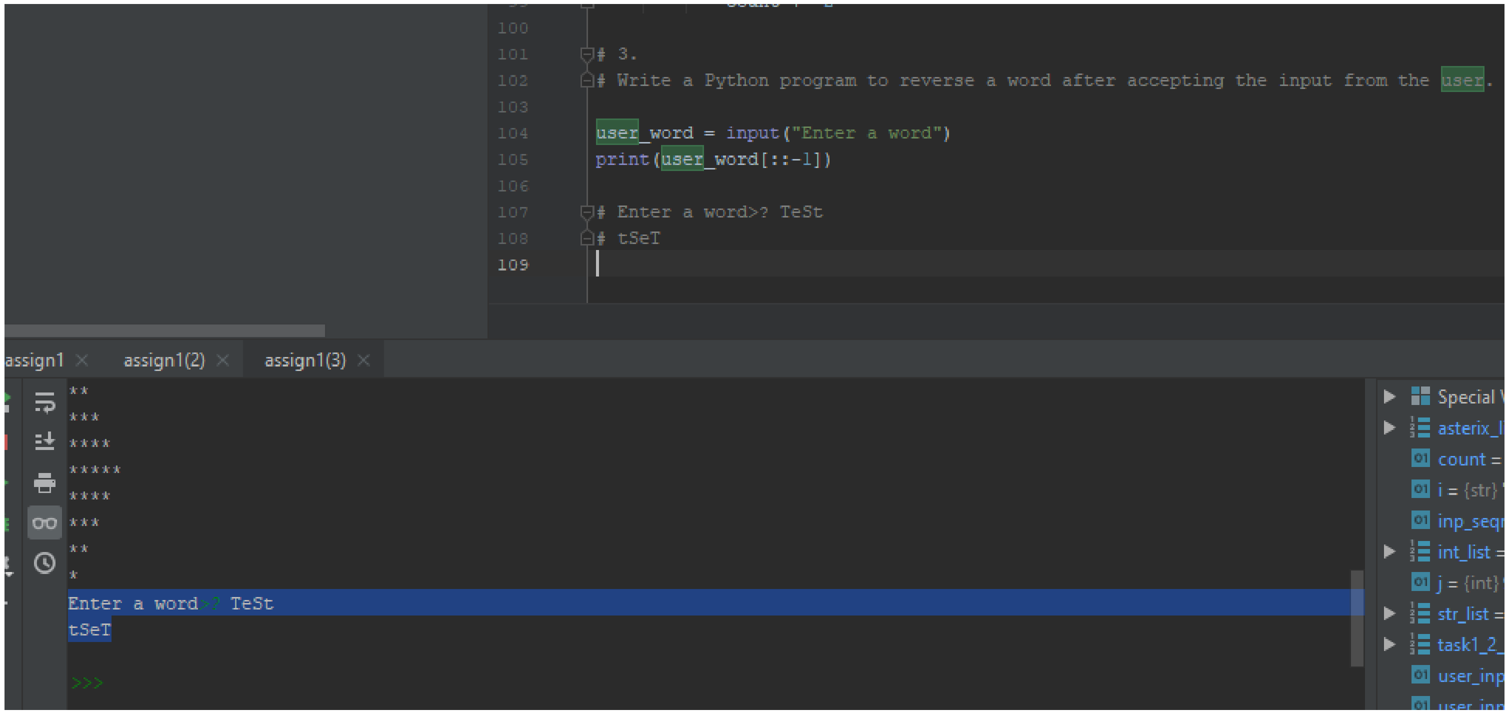


```
asterix_list = ["*"]
count = 2
for j in range(10):
    for i in asterix_list:
        if j <= 5:
            print(j*i)
        else:
            print((j-count)*i)
            count += 2
```

assign1

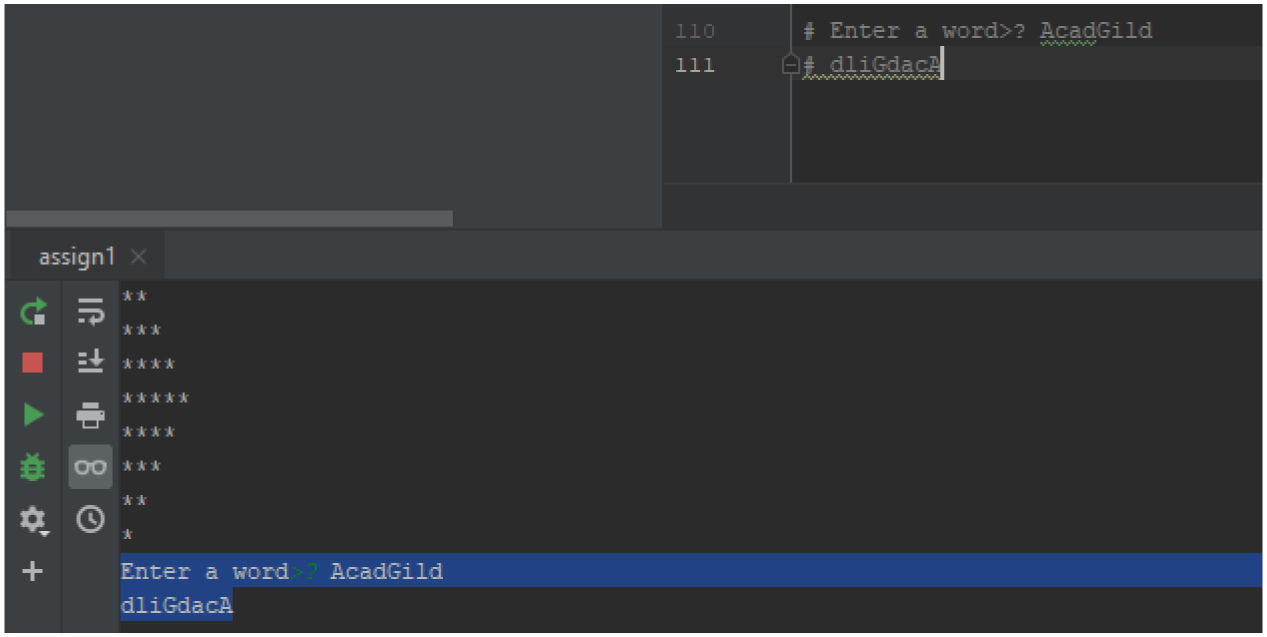
```
*
**
***
****
*****
****
***
**
*
```

Task2:3 ; Used two test cases words were TeSt and AcadGild



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

user_word = input("Enter a word")
print(user_word[::-1])

# Enter a word>? TeSt
# tSeT
```

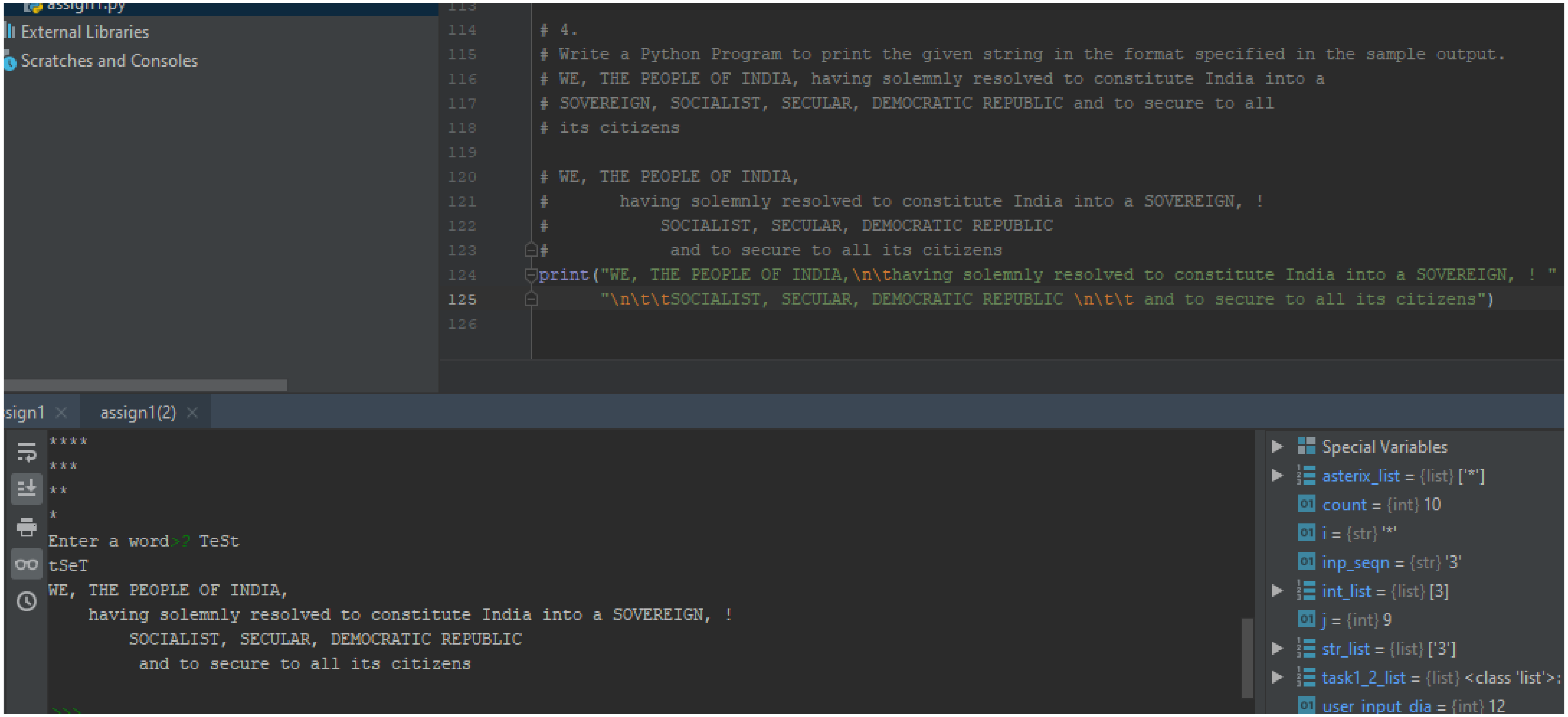
```
**
***
****
*****
****
***
**
*
Enter a word>? TeSt
tSeT

>>>
```



```
# Enter a word>? AcadGild
# dliGdacA
```

```
**
***
****
*****
****
***
**
*
Enter a word>? AcadGild
dliGdacA
```

Task2:4



External Libraries
Scratches and Consoles

```
# 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

# 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
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")
```

sign1 assign1(2)

```
****
***
**
*
Enter a word>? TeSt
tSeT
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
```

```
Special Variables
asterix_list = {list} ['*']
count = {int} 10
i = {str} '*'
inp_seqn = {str} '3'
int_list = {list} [3]
j = {int} 9
str_list = {list} ['3']
task1_2_list = {list} <class 'list'>:
user_input_dia = {int} 12
```