

Assignment -1

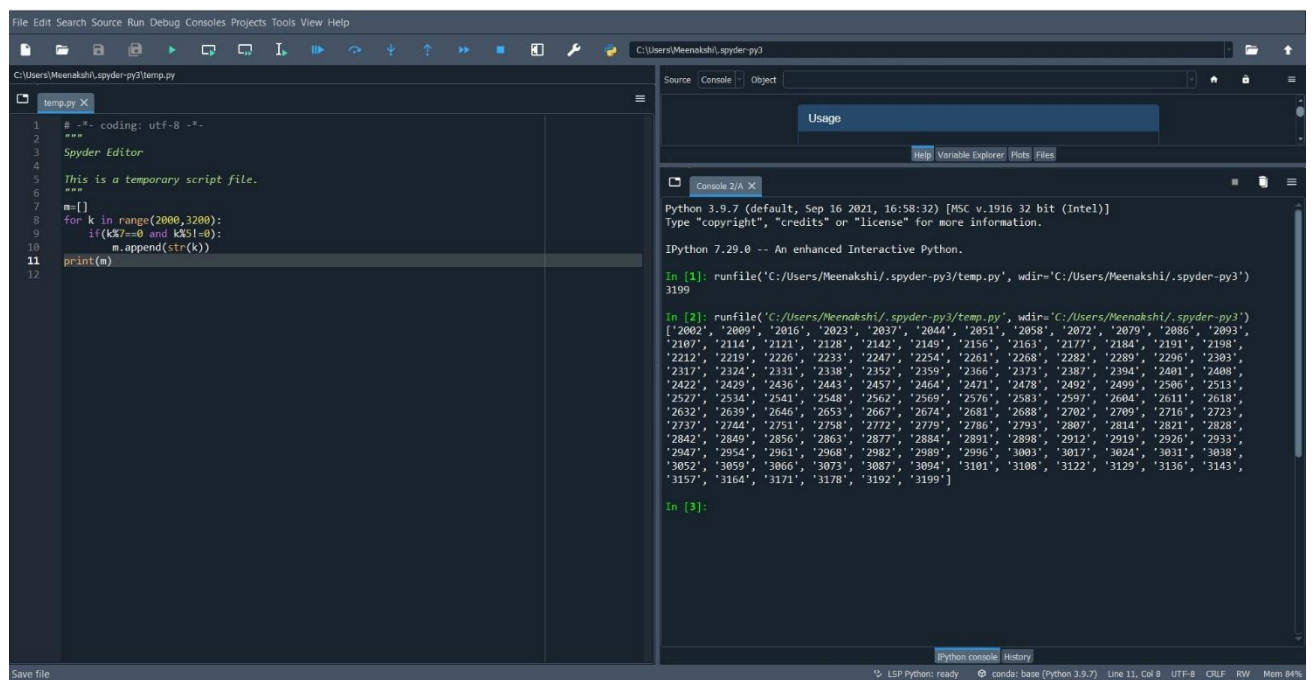
Python Programming

Assignment Date	26 October 2022
Student Name	Meenakshi L
Student Roll Number	412419205055
Maximum Marks	2 Marks

Question-1:

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.

Solution:



The screenshot shows the Spyder Python IDE interface. The left pane displays a script named 'temp.py' with the following code:

```
1 # -*- coding: utf-8 -*-
2 """
3 Spyder Editor
4 This is a temporary script file.
5 """
6
7 m=[]
8 for k in range(2000,3200):
9     if(k%7==0 and k%5!=0):
10         m.append(str(k))
11 print(m)
12
```

The right pane shows the IPython console output for the script:

```
In [1]: runfile('C:/Users/Meenakshi/.spyder-py3/temp.py', wdir='C:/Users/Meenakshi/.spyder-py3')
3199

In [2]: runfile('C:/Users/Meenakshi/.spyder-py3/temp.py', wdir='C:/Users/Meenakshi/.spyder-py3')
['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 [3]:
```

The status bar at the bottom indicates 'LSP Python: ready', 'conda: base (Python 3.9.7)', 'Line 11, Col 8', 'UTF-8', 'CR/LF', and 'Mem 84%'.

Question-2:

With a given integral number n , write a program to generate a dictionary that contains $(i, i*i)$ such that i is an integral number between 1 and n (both included). and then the program should print the dictionary.

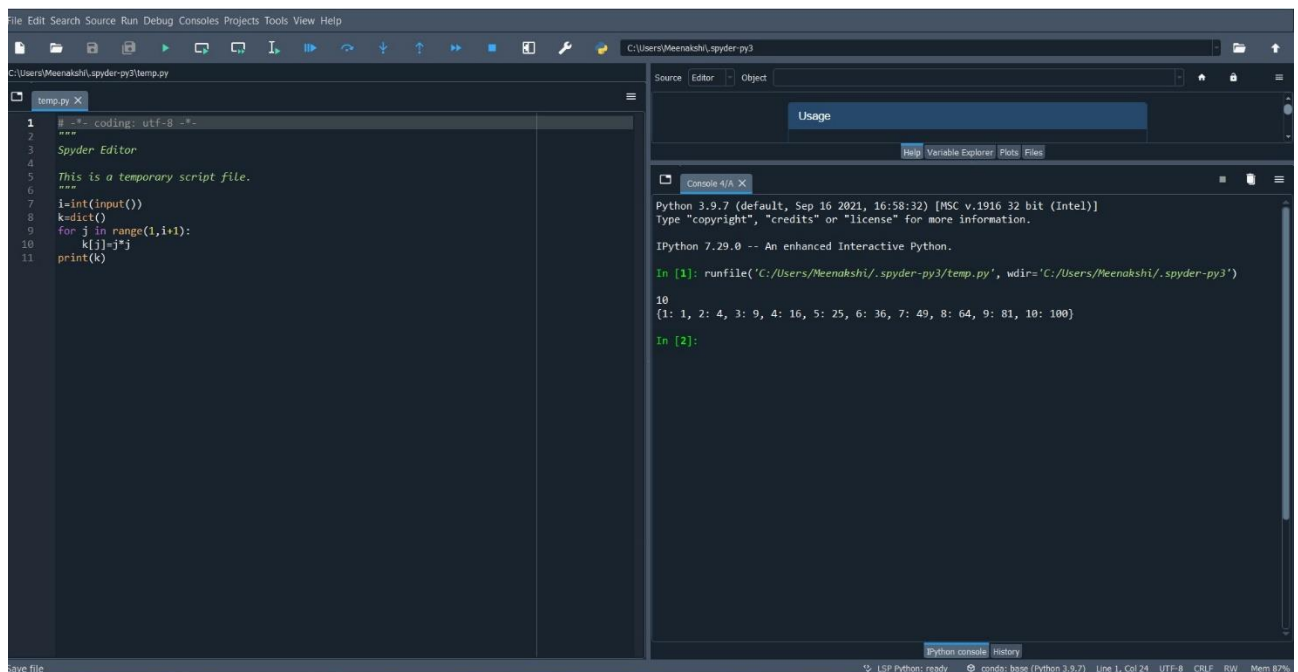
Suppose the following input is supplied to the program:

10

Then, the output will be:

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}

Solution:



The screenshot shows the Spyder Python IDE interface. The left pane displays a Python script named `temp.py` with the following code:

```
1 #-*- coding: utf-8 -*-
2 """
3 Spyder Editor
4 This is a temporary script file.
5 """
6
7 i=int(input())
8 k=dict()
9 for j in range(1,i+1):
10     k[j]=j*j
11 print(k)
```

The right pane shows the IPython console output:

```
Python 3.9.7 (default, Sep 16 2021, 16:58:32) [MSC v.1916 32 bit (Intel)]
Type "copyright", "credits" or "license()" for more information.

IPython 7.29.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/Meenakshi/.spyder-py3/temp.py', wdir='C:/Users/Meenakshi/.spyder-py3')
10
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}

In [2]:
```

The status bar at the bottom indicates the environment is `conda: base (Python 3.9.7)` and the file is `Line 1, Col 24`.