

Assignment -1

Python Programming

Assignment Date	1 November 2022
Student Name	Ms. Mercy P
Student Roll Number	412419205057
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.

The screenshot shows the Spyder Python 3.9 IDE interface. The code editor window contains a script named 'temp.py' with the following content:

```
1 # -*- coding: utf-8 -*-
2 """
3 Spyder Editor
4
5 This is a temporary script file.
6
7
8 Me=[]
9 for i in range(2000, 3201):
10     if (i%7==0) and (i%5!=0):
11         Me.append(str(i))
12 print (''.join(Me))
```

The IPython console window shows the output of running the script:

```
In [1]: runfile('C:/Users/Welcome/.spyder-py3/temp.py', wdir='C:/Users/Welcome/.spyder-py3')
2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163, 21
77, 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, 2
534, 2541, 2548, 2562, 2569, 2576, 2581, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 270
9, 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, 30
66, 3073, 3087, 3094, 3101, 3108, 3122, 3129, 3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199
```

The status bar at the bottom right indicates the system is 84°F Cloudy, the date is 10/30/2022, and the time is 8:45 PM.

Question-2:

With a given integral number n, write a program to generate a dictionary that contains (i, i*i) such that 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:

8

Then, the output should be:

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

Spyder (Python 3.9)

File Edit Search Source Run Debug Consoles Projects Tools View Help

C:\Users\Welcome\spyder-py3\temp.py

temp.py X

```
1
2
3 n=int(input())
4 d=dict()
5 for i in range(1,n+1):
6     d[i]=i*i
7
8
9
10 print (d)
11
12
13
```

Source Console Object

Usage

Here you can get help of any object by pressing **Ctrl+H** in front of it, either on

Help Variable Explorer Plots Files

Console 1/A X

Python 3.9.7 (default, Sep 16 2021, 16:59:28) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.29.0 -- An enhanced Interactive Python.

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

12
(1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144)

In [2]: |

Python console History

LSP Python: ready
conda: base (Python 3.9.7) Line 10, Col 1 UTF-8-GUESSED CRLF RW Mem 97%

Cloudy 84°F

9:21 PM 10/30/2022