

Assignment -1

Python Programming

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|---------------------|----------------------|
| Assignment Date | 1 November 2022 |
| Student Name | Ms.Abinaya Vithiya U |
| Student Roll Number | 412419205003 |
| 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 left pane displays the code in a file named 'temp.py':

```
l=[]
for i in range(2000, 3201):
    if ((i%7==0) and (i%5!=0)):
        l.append(str(i))

print (','.join(l))
```

The right pane shows the IPython console output:

```
IPython 8.2.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/TEST/.spyder-py3/temp.py', wdir='C:/Users/TEST/.spyder-py3')
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,2142,2149,21
56,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,2268,2282,2289,2296,2303,231
7,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2408,2422,2429,2436,2443,2457,2464,2471,2
478,2492,2499,2506,2513,2527,2534,2541,2548,2562,2569,2576,2583,2597,2594,2611,2618,2632,263
9,2646,2653,2667,2674,2681,2688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,
2807,2814,2821,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,29
61,2966,2982,2989,2996,3003,3017,3024,3031,3038,3052,3059,3066,3073,3087,3094,3101,3108,3122
,3129,3136,3143,3157,3164,3171,3178,3192,3199
```

The status bar at the bottom indicates: LSP Python: ready, conda: base (Python 3.9.12), Line 10, Col 1, UTF-8, CR/LF, RW, Mem 60%, 13:28, Rain..., ENG, 01-11-2022.

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.

Spyder (Python 3.9)

File Edit Search Source Run Debug Consoles Projects Tools View Help

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

temp.py X

```
1 n=8
2 d=dict()
3 for i in range(1,n+1):
4     d[i]=i*i
5 print (d)
6
7
8
9
10
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 the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.

New to Spyder? Read our [tutorial](#)

Console 1/A X

```
Python 3.9.12 (main, Apr  4 2022, 05:22:27) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 8.2.0 -- An enhanced Interactive Python.

Restarting kernel...
```

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

In [2]:

LSP Python: ready conda (Python 3.9.12) Line 5, Col 10 ASCII CRLF RW Mem 58% 13:38 01-11-2022 Rain... ENG

