

Assignment -1
Python Programming

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| Assignment Date | 27 October 2022 |
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| 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 editor window displays a Python script named 'temp.py' with the following code:

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

The Variable explorer on the right shows the variable 'l' as a list of 138 elements, with the first few elements visible: ['2002', '2009', '2016', '2023', '2037', '2044', '2051', '2058', '2072 ...]. The IPython console at the bottom shows the execution of the script, displaying the full list of numbers in a single line, separated by commas.

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}

Source Code:

