

Assignment -1

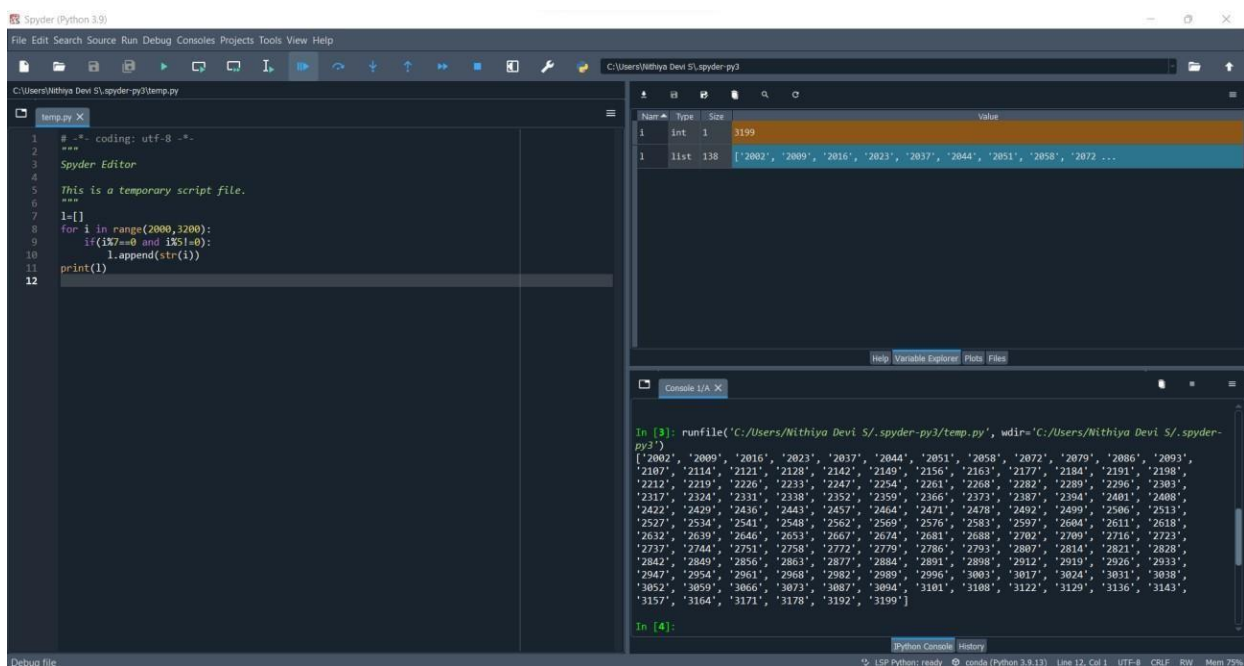
Python Programming

Assignment Date	23 October 2022
Student Name	Hemachandran M
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 on the left contains 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 l=[]
8 for i in range(2000,3200):
9     if(i%7==0 and i%5!=0):
10         l.append(str(i))
11
12 print(l)
```

The Variable Explorer on the right shows the variable 'l' as a list of 138 elements. The console at the bottom displays the output of the script, which is a long list of numbers in quotes, separated by commas, representing the numbers between 2000 and 3200 that are divisible by 7 but not by 5.

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:

