

Assignment -1
Python Programming

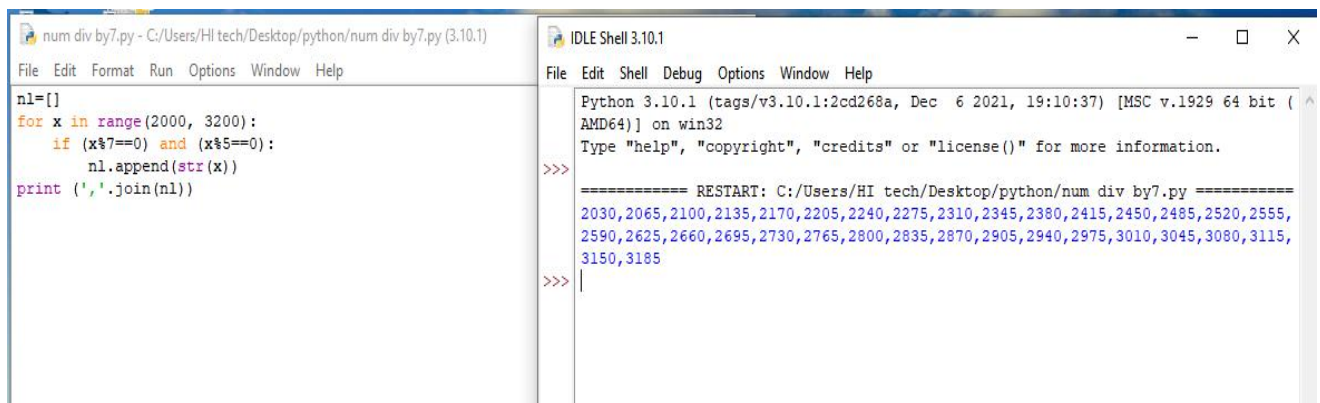
Assignment Date	1 November 2022
Student Name	priyanga
Student Roll Number	620319106044
Maximum Marks	2 Marks

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

```
nl=[]
for x in range(2000, 3200):
    if (x%7==0) and (x%5!=0):
        nl.append(str(x))
print(','.join(nl))
```

The screenshot shows a Python IDE with two windows. The left window, titled 'num div by7.py - C:/Users/Hi tech/Desktop/python/num div by7.py (3.10.1)', contains the following code:

```
nl=[]
for x in range(2000, 3200):
    if (x%7==0) and (x%5!=0):
        nl.append(str(x))
print(','.join(nl))
```

The right window, titled 'IDLE Shell 3.10.1', shows the output of the program after execution. It displays the Python version and system information, followed by a restart message and the output of the program: 2030,2065,2100,2135,2170,2205,2240,2275,2310,2345,2380,2415,2450,2485,2520,2555,2590,2625,2660,2695,2730,2765,2800,2835,2870,2905,2940,2975,3010,3045,3080,3115,3150,3185.

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:

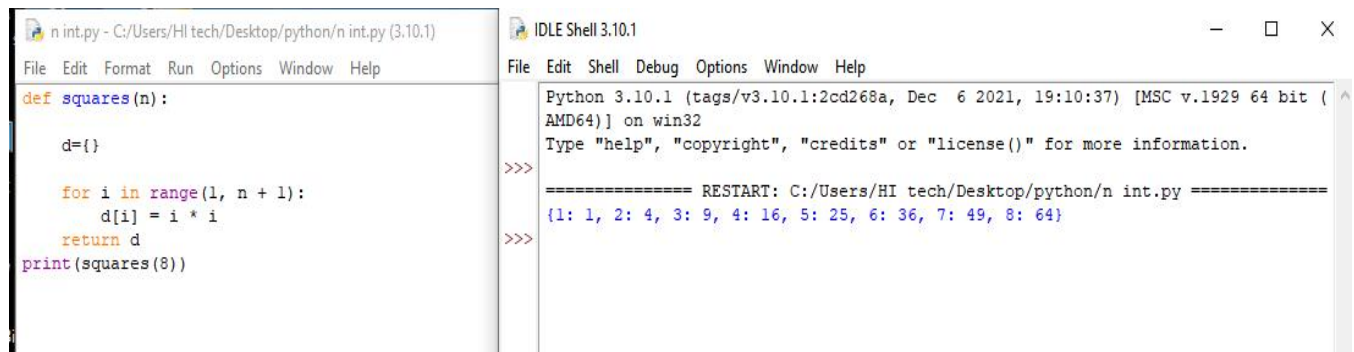
8

Then, the output should be:

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

Solution

```
def squares(n):  
  
    d={}  
  
    for i in range(1, n + 1):  
        d[i] = i * i  
    return d  
print(squares(8))
```



```
n_int.py - C:/Users/HI tech/Desktop/python/n_int.py (3.10.1)  
File Edit Format Run Options Window Help  
def squares(n):  
  
    d={}  
  
    for i in range(1, n + 1):  
        d[i] = i * i  
    return d  
print(squares(8))
```

```
IDLE Shell 3.10.1  
File Edit Shell Debug Options Window Help  
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:/Users/HI tech/Desktop/python/n_int.py =====  
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}  
>>>
```