

Assignment -1

Python Programming

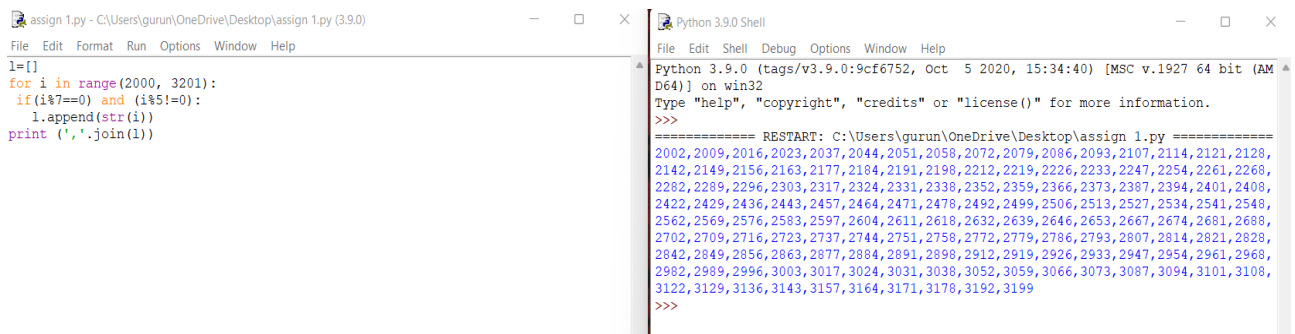
Assignment Date	26 September 2022
Student Name	Hamshavarthan.K
Student Roll Number	814719106020
Maximum Marks	2 Marks

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:

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



```
assign 1.py - C:\Users\gurun\OneDrive\Desktop\assign 1.py (3.9.0)
File Edit Format Run Options Window Help
l=[]
for i in range(2000, 3201):
    if (i%7==0) and (i%5!=0):
        l.append(str(i))
print(','.join(l))

Python 3.9.0 Shell
File Edit Shell Debug Options Window Help
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\gurun\OneDrive\Desktop\assign 1.py =====
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2114,2121,2128,
2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,2226,2233,2247,2254,2261,2268,
2282,2289,2296,2303,2317,2324,2331,2338,2352,2359,2366,2373,2387,2394,2401,2408,
2422,2429,2436,2443,2457,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,2548,
2562,2569,2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,2681,2688,
2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,2807,2814,2821,2828,
2842,2849,2856,2863,2877,2884,2891,2898,2912,2919,2926,2933,2947,2954,2961,2968,
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
>>>
```

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

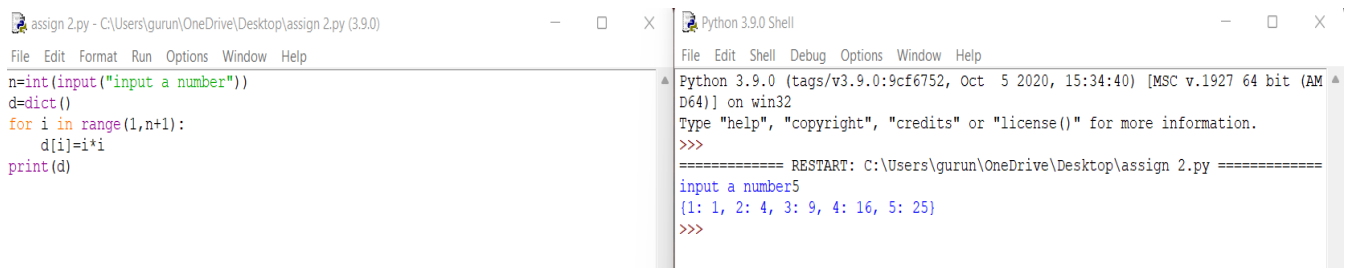
Then, the output should be:

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

Solution:

```
n=int(input("input a number"))
d=dict()
for i in range(1,n+1):
    d[i]=i*i
```

```
print (d)
```



The screenshot shows two windows. The left window is a text editor titled 'assign 2.py - C:\Users\gurun\OneDrive\Desktop\assign 2.py (3.9.0)' containing the following Python code:

```
n=int(input("input a number"))
d=dict()
for i in range(1,n+1):
    d[i]=i*i
print(d)
```

The right window is a 'Python 3.9.0 Shell' window. It displays the execution of the script. The prompt 'input a number' is followed by the user input '5'. The output is the dictionary '{1: 1, 2: 4, 3: 9, 4: 16, 5: 25}'.