

Assignment -1

Python Programming

Assignment Date	1 November 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:

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

The screenshot shows a Python IDE with two windows. The left window, titled 'code1.py', contains the following code:

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

The right window, titled 'IDLE Shell 3.10.7', shows the output of the program:

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/Lenovo/AppData/Local/Programs/Python/Python310/code1.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 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:

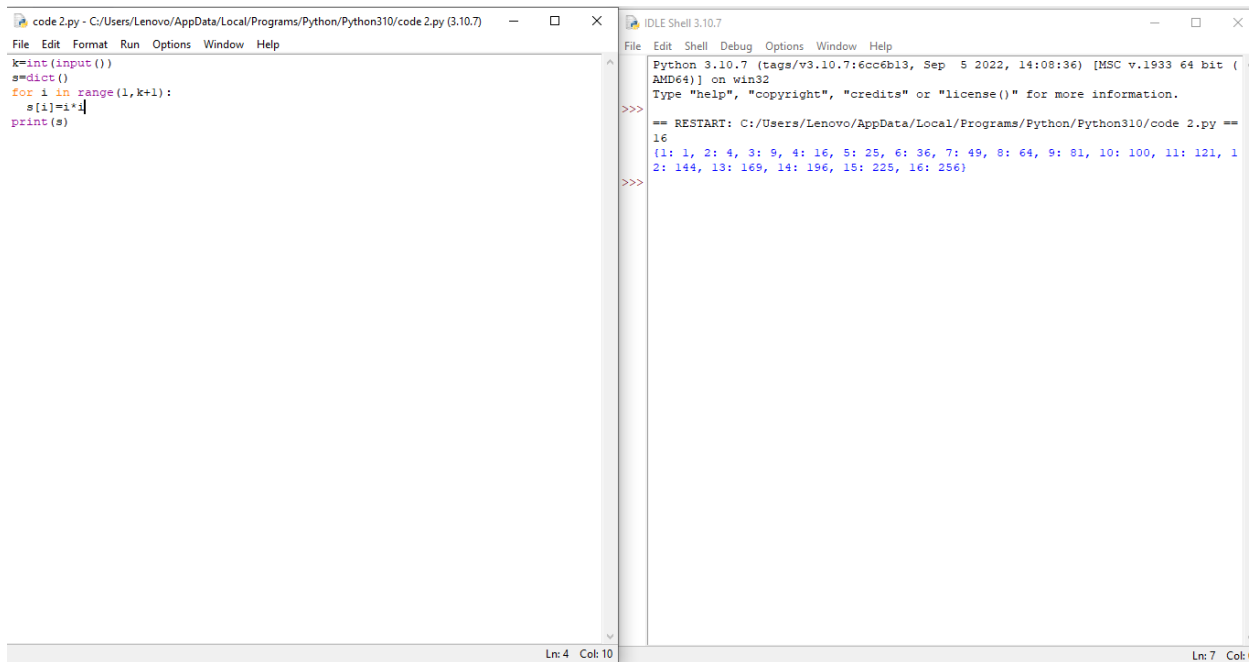
8

Then, the output should be:

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

Solution:

```
k=int(input())
s=dict()
for i in range(1,k+1):
    s[i]=i*i
print(s)
```



The screenshot shows a Python IDE with two windows. The left window, titled 'code 2.py', contains the following code:

```
k=int(input())
s=dict()
for i in range(1,k+1):
    s[i]=i*i
print(s)
```

The right window, titled 'IDLE Shell 3.10.7', shows the output of the program. It starts with the Python version and architecture information, followed by a restart message. The output is:

```
>>>
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Lenovo/AppData/Local/Programs/Python/Python310/code 2.py ==
16
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225, 16: 256}
>>>
```

The status bar at the bottom indicates the current line and column: 'Ln: 4 Col: 10' for the code editor and 'Ln: 7 Col: 1' for the shell.