

**Assignment**  
**Python Programming**

Assignment Date	19 September 2022
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Student Roll Number	311019106032
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))
# ..... #
# ..... #
```



The screenshot shows a Python IDE with the following code in a file named 'f000.py':

```
1 l=[]
2 for i in range(2000, 3201):
3     if (i%7==0) and (i%5!=0):
4         l.append(str(i))
5
6
7 print(','.join(l))
8
```

The output window displays a long list of numbers that are divisible by 7 but not by 5, ranging from 2002 to 3199. The numbers are: 2002, 2009, 2016, 2023, 2030, 2037, 2044, 2051, 2058, 2065, 2072, 2079, 2086, 2093, 2100, 2107, 2114, 2121, 2128, 2135, 2142, 2149, 2156, 2163, 2170, 2177, 2184, 2191, 2198, 2205, 2212, 2219, 2226, 2233, 2240, 2247, 2254, 2261, 2268, 2275, 2282, 2289, 2296, 2303, 2310, 2317, 2324, 2331, 2338, 2345, 2352, 2359, 2366, 2373, 2380, 2387, 2394, 2401, 2408, 2415, 2422, 2429, 2436, 2443, 2450, 2457, 2464, 2471, 2478, 2485, 2492, 2500, 2507, 2514, 2521, 2528, 2535, 2542, 2549, 2556, 2563, 2570, 2577, 2584, 2591, 2598, 2605, 2612, 2619, 2626, 2633, 2640, 2647, 2654, 2661, 2668, 2675, 2682, 2689, 2696, 2703, 2710, 2717, 2724, 2731, 2738, 2745, 2752, 2759, 2766, 2773, 2780, 2787, 2794, 2801, 2808, 2815, 2822, 2829, 2836, 2843, 2850, 2857, 2864, 2871, 2878, 2885, 2892, 2899, 2906, 2913, 2920, 2927, 2934, 2941, 2948, 2955, 2962, 2969, 2976, 2983, 2990, 2997, 3004, 3011, 3018, 3025, 3032, 3039, 3046, 3053, 3060, 3067, 3074, 3081, 3088, 3095, 3102, 3109, 3116, 3123, 3130, 3137, 3144, 3151, 3158, 3165, 3172, 3179, 3186, 3193, 3199.

The program finished with exit code 0. The prompt 'Press ENTER to exit console' is visible.

**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:**

```
n=int(input())
```

```
d=dict()
```

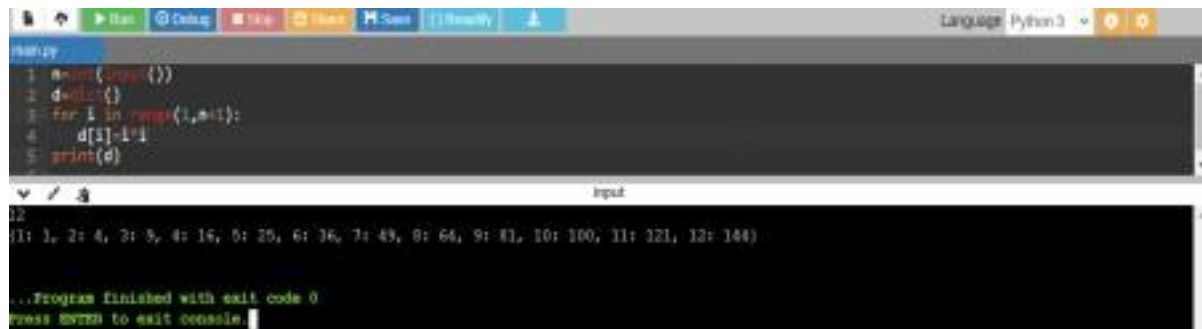
```
for i in range(1,n+1):
```

```
    d[i]=i*i
```

```
print d
```

```
#.....#
```

```
#.....#
```



The screenshot shows a Python IDE with a toolbar at the top containing icons for Run, Debug, Test, and other functions. The language is set to Python 3. The code editor contains the following code:

```
1 n=int(input())
2 d=dict()
3 for i in range(1,n+1):
4     d[i]=i*i
5 print(d)
```

The output console shows the following output:

```
12
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144}

...Program finished with exit code 0
Press ENTER to exit console
```