

**Assignment -1**  
Python Programming

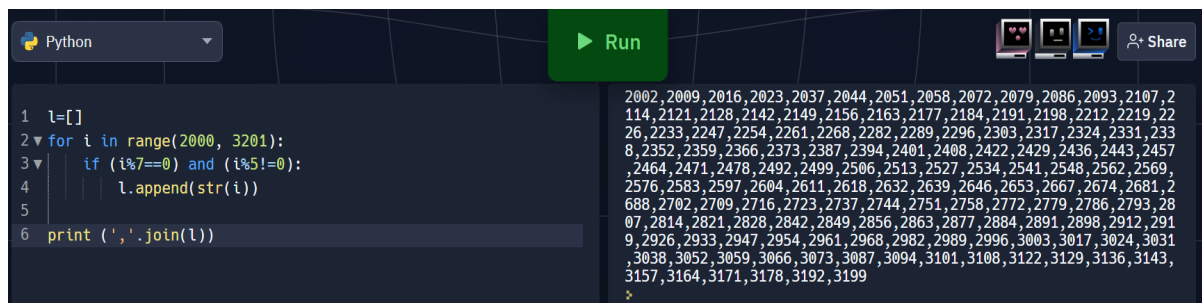
Assignment Date	3 November 2022
Student Name	Gayathri M
Student Roll Number	19EC021
Maximum Marks	2 Marks

**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:

```
n1=[]  
for x in range(2000,3200):  
    if (x%7==0) and (x%5!=0):  
        n1.append(str(x))  
print(join(n1))
```



The screenshot shows a Python IDE with a dark theme. On the left, the code editor contains the following code:

```
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 print(','.join(l))
```

On the right, the output window displays a long list of numbers separated by commas, representing the numbers between 2000 and 3200 that are divisible by 7 but not by 5. The numbers are: 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:

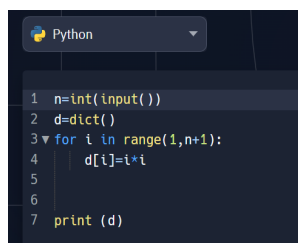
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Solution:

```
number = int(input("type a number"))  
numberDict = {}
```

```
for i in range(1, number+1):  
    numberDict[i] = i*i
```

```
print(numberDict)
```

A screenshot of a Python code editor window. The window has a title bar with the Python logo and the word "Python". The code is as follows:

```
1 n = int(input())  
2 d = dict()  
3 for i in range(1, n+1):  
4     d[i] = i*i  
5  
6  
7 print(d)
```

