

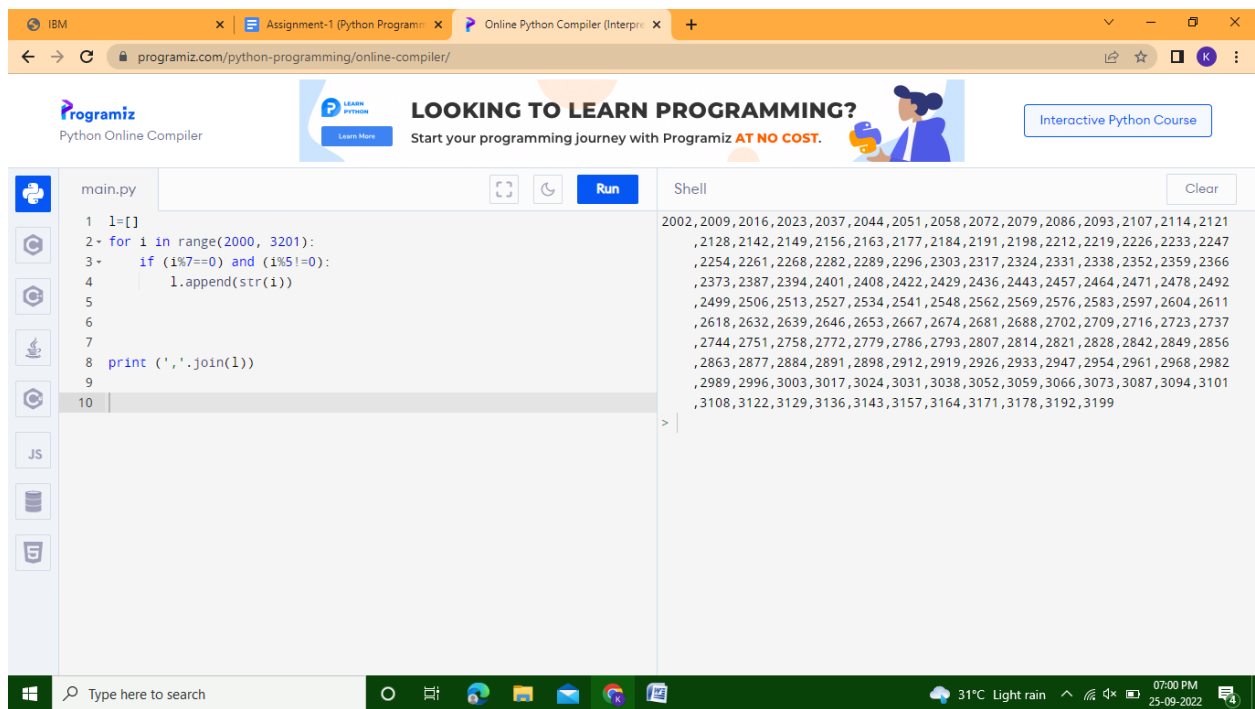
ASSIGNMENT-I

TECHNOLOGY: ARTIFICIAL INTELLIGENCE

DOMAIN: REAL -TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

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.



The screenshot shows a web browser window with the URL `programiz.com/python-programming/online-compiler/`. The page features the Programiz logo and a banner that says "LOOKING TO LEARN PROGRAMMING? Start your programming journey with Programiz AT NO COST." There is also a link to an "Interactive Python Course".

The main area of the browser displays a Python code editor with 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
7
8 print(','.join(l))
9
10
```

The code is executed, and the output is displayed in the "Shell" window on the right. The output is a long comma-separated sequence of numbers: 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.

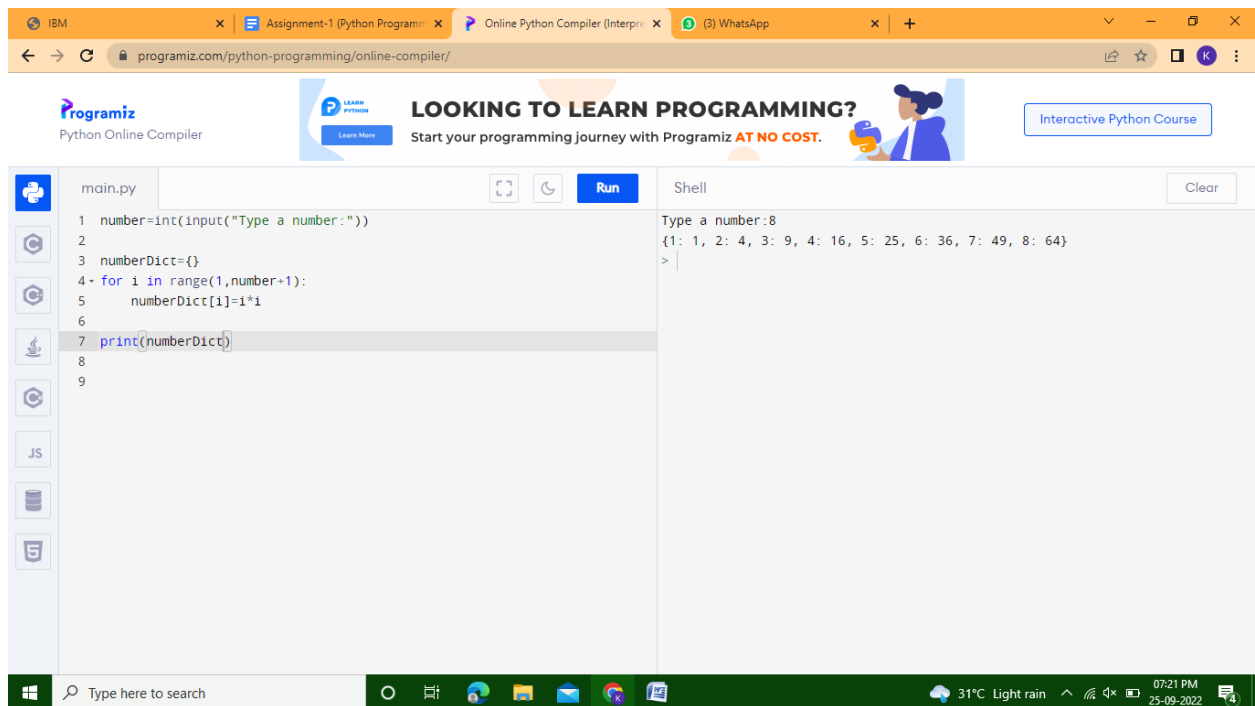
The Windows taskbar at the bottom shows the time as 07:00 PM on 25-09-2022, with a temperature of 31°C and light rain.

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}



The screenshot shows a web browser with the Programiz Python Online Compiler. The code in the editor is as follows:

```
1 number=int(input("Type a number:"))
2
3 numberDict={}
4 for i in range(1,number+1):
5     numberDict[i]=i*i
6
7 print(numberDict)
8
9
```

The output in the shell is:

```
Type a number:8
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}
>
```

The browser's address bar shows the URL: `programiz.com/python-programming/online-compiler/`. The top of the page features a banner with the text "LOOKING TO LEARN PROGRAMMING? Start your programming journey with Programiz AT NO COST." and a button for "Interactive Python Course". The bottom of the browser window shows a Windows taskbar with the date and time: 07:21 PM, 25-09-2022.

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