

ASSIGNMENT-1

PHASE-1

TECHNOLOGY: CLOUD APPLICATION DEVELOPMENT

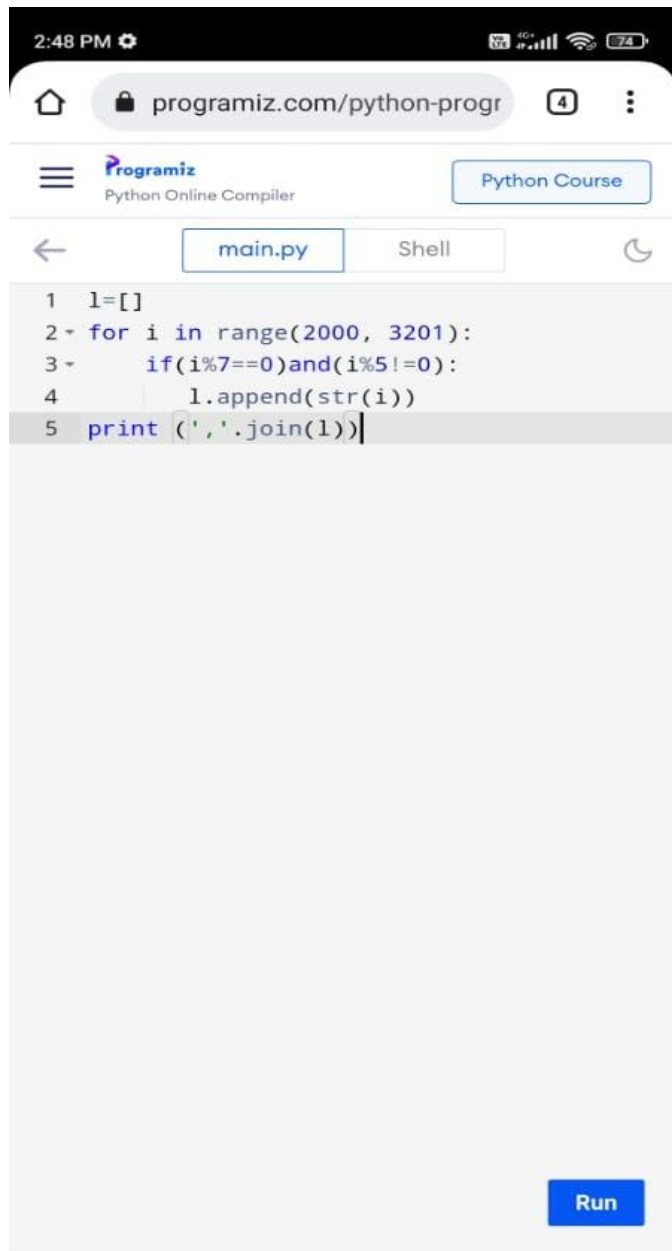
DOMAIN: RETAILS AND E-COMMERCE

TOPIC: SMART FASHION RECOMMENDER APPICATION

Q. No: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.

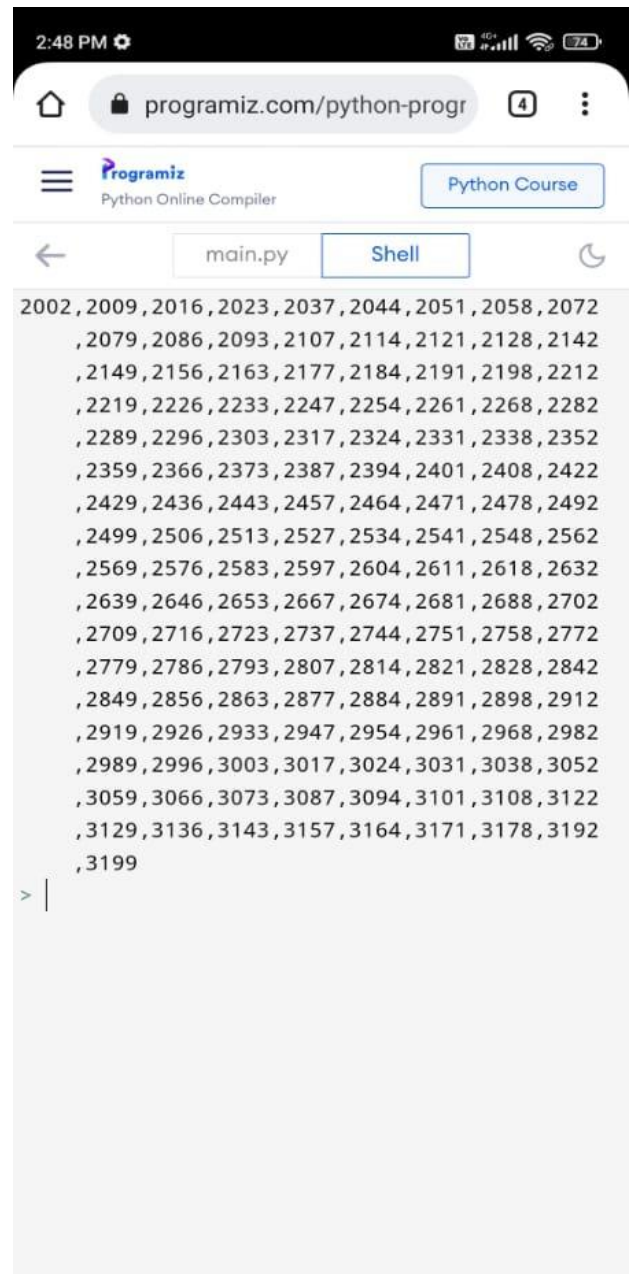
Solution:



The screenshot shows the Programiz Python Online Compiler interface. The browser address bar displays 'programiz.com/python-progr'. The page header includes the Programiz logo, 'Python Online Compiler', and a 'Python Course' button. The editor has tabs for 'main.py' and 'Shell'. The code in 'main.py' is as follows:

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

A blue 'Run' button is located at the bottom right of the editor area.



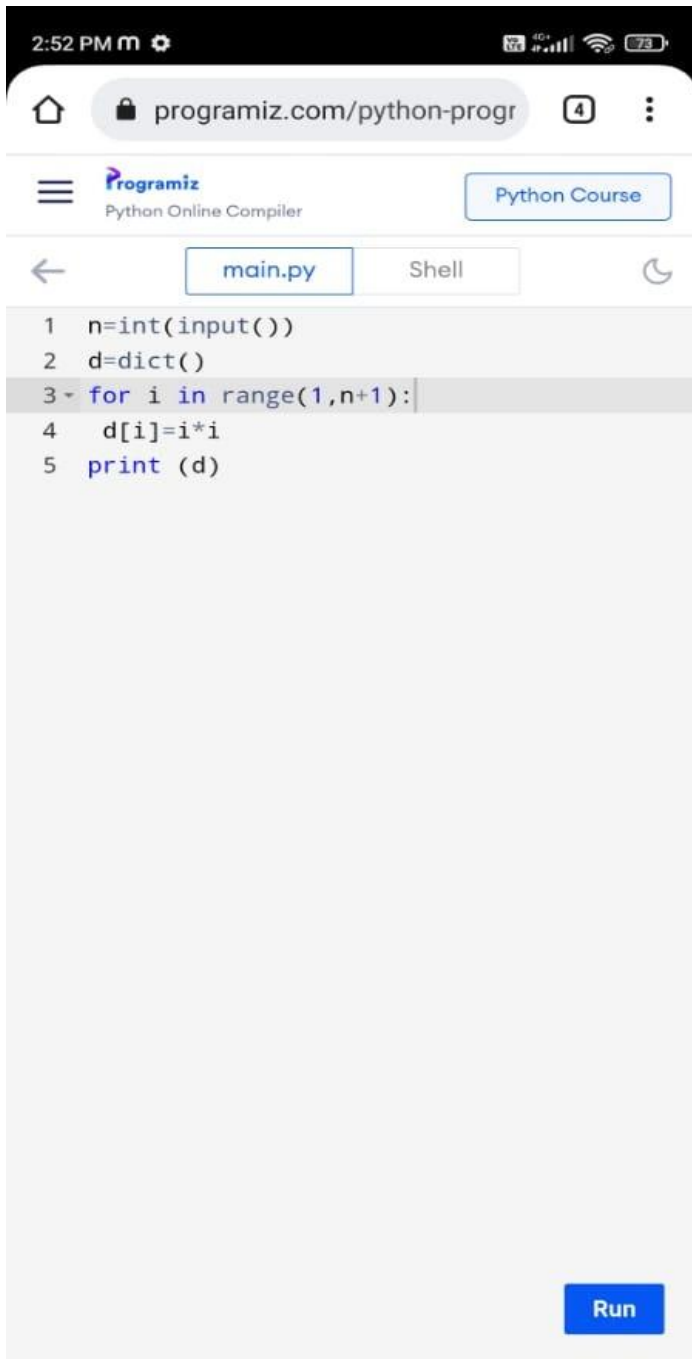
The screenshot shows the same Programiz Python Online Compiler interface, but the 'Shell' tab is active, displaying the output of the program. The output is a long comma-separated list of numbers on a single line, followed by a prompt character '> |'.

```
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
> |
```

Q. NO: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.

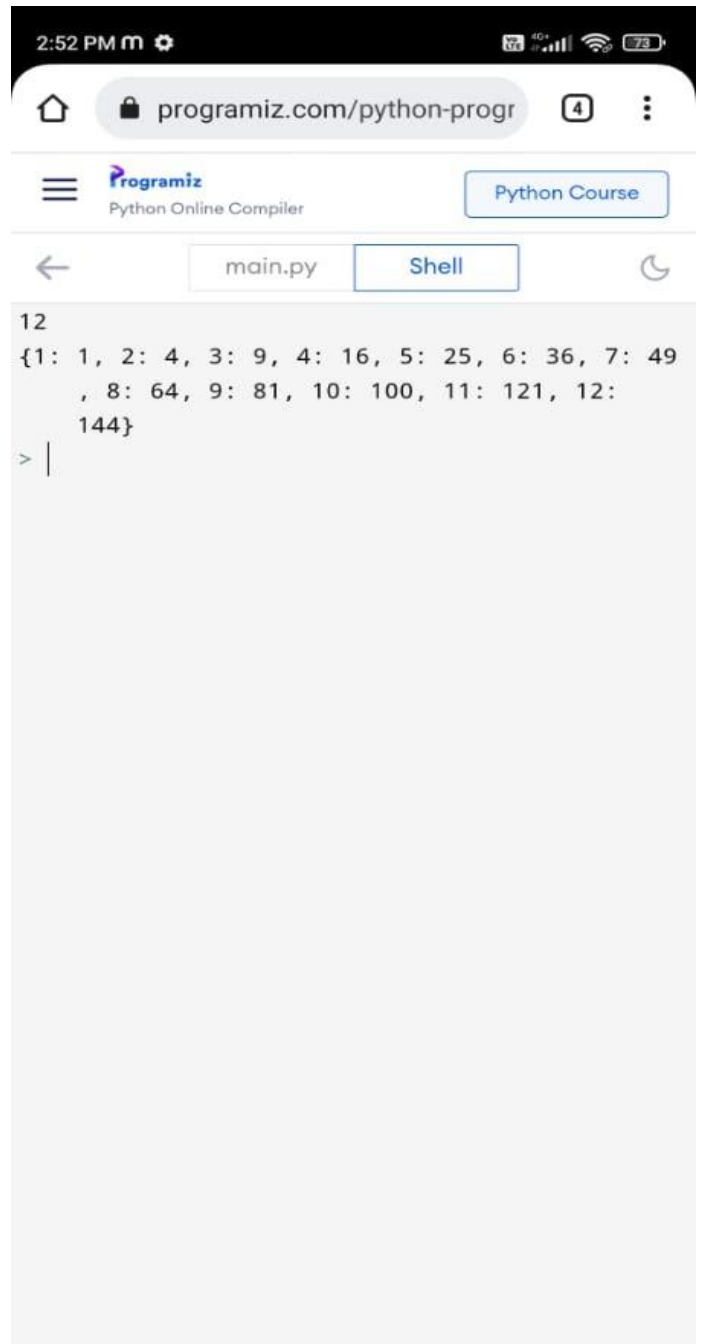
Solution:



The screenshot shows the Programiz Python Online Compiler interface. The browser address bar displays 'programiz.com/python-progr'. The page header includes the Programiz logo, 'Python Online Compiler', and a 'Python Course' button. Below the header, there are tabs for 'main.py' and 'Shell'. The code editor contains the following Python code:

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

A blue 'Run' button is located at the bottom right of the code editor.



The screenshot shows the same Programiz Python Online Compiler interface, but now displaying the output of the program. The browser address bar and page header are identical. The 'main.py' tab is selected, and the output is displayed in the 'Shell' tab. The output shows the input '12' followed by the dictionary '{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144}'.

```
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}
> |
```

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