

Assignment

Python

Programming

Assignment Date	1 September 2022
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Student Roll Number	19BCS4116
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:

```
list1=[]
for num in range(2000, 3201):
    if (num%7==0) and
    (num%5!=0):
        list1.append(str(num))

print (','.join(list1))
#.....#
#.....#
```



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

```
1 list1=[]
2 for num in range(2000, 3201):
3     if (num%7==0) and (num%5!=0):
4         list1.append(str(num))
5 print (','.join(list1))
6
```

The output window displays the result of the program, which is a long comma-separated string 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.

At the bottom of the output window, it says: "...Program finished with exit code 0 Press ENTER to exit console."

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 code editor and a console. 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)
```

The console output shows the result of running the code with input 8:

```
1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64]
...Program finished with exit code 0
Press ENTER to exit console.
```