ASSIGNMENT -1PYTHON PROGRAMMING

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PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM
	FOR AGRICULTURE
DATE	19 SEPTEMBER 2022
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))
#-----#
```

OUTPUT:

```
Python

| 1 | 1 | 2 | 2 | 2 | 4 | 2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2 | 114, 2121, 2128, 2142, 2149, 2156, 2163, 2177, 2184, 2191, 2198, 2242, 2219, 22 | 22 | 4 | 2156, 2163, 2177, 2184, 2191, 2198, 2242, 2219, 22 | 22 | 23, 2247, 2254, 2261, 2268, 2282, 2289, 2296, 2303, 2317, 2324, 2331, 233 | 8, 2352, 2359, 2366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443, 2457 | 2464, 2471, 2478, 2492, 2496, 2567, 2573, 2574, 2548, 2562, 2569, 2646, 2673, 2577, 25734, 2541, 2548, 2562, 2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2 | 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2 | 2688, 2702, 2709, 2716, 2723, 2737, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 280, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 2772, 2779, 2786, 2793, 28 | 277
```

QUESTION-2:

With a given integral number n, write a program to generate a dictionary that contains (i, i*i) such that 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
#------#
#------#
```

OUTPUT: