

Assignment -1
Python Programming

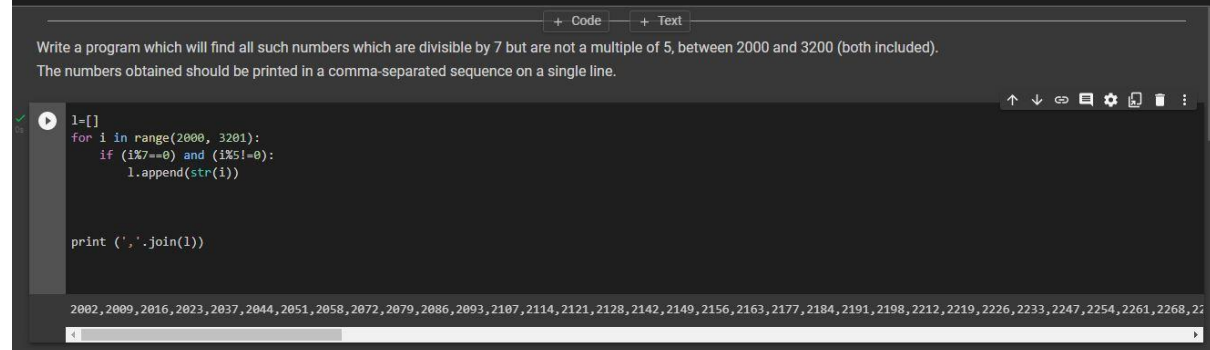
Assignment Date	19 November 2022
Student Name	Pratheebha S
Student Roll Number	211519205113
Maximum Marks	2 Marks

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.

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

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



The screenshot shows a code editor with the following code:

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

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

Below the code editor, there is a text area with the problem statement: "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 code is executed, and the output is displayed at the bottom: "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, 2275, 2282, 2289, 2303, 2310, 2317, 2324, 2338, 2345, 2352, 2359, 2373, 2380, 2387, 2394, 2408, 2415, 2422, 2436, 2443, 2450, 2457, 2471, 2478, 2485, 2492, 2506, 2513, 2520, 2527, 2541, 2548, 2555, 2562, 2576, 2583, 2590, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2695, 2702, 2709, 2716, 2730, 2737, 2744, 2751, 2765, 2772, 2779, 2786, 2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912, 2919, 2926, 2933, 2947, 2954, 2961, 2975, 2982, 2989, 3003, 3010, 3017, 3024, 3038, 3045, 3052, 3066, 3073, 3080, 3087, 3101, 3108, 3115, 3122, 3136, 3143, 3150, 3157, 3171, 3178, 3185, 3192, 3206, 3213, 3220, 3227, 3241, 3248, 3255, 3262, 3276, 3283, 3290, 3297, 3311, 3318, 3325, 3332, 3346, 3353, 3360, 3367, 3381, 3388, 3395, 3402, 3416, 3423, 3430, 3437, 3451, 3458, 3465, 3472, 3479, 3486, 3493, 3507, 3514, 3521, 3528, 3542, 3549, 3556, 3563, 3577, 3584, 3591, 3598, 3612, 3619, 3626, 3633, 3647, 3654, 3661, 3675, 3682, 3689, 3703, 3710, 3717, 3724, 3738, 3745, 3752, 3766, 3773, 3780, 3787, 3801, 3808, 3815, 3822, 3836, 3843, 3850, 3857, 3871, 3878, 3885, 3892, 3906, 3913, 3920, 3927, 3941, 3948, 3955, 3962, 3976, 3983, 3990, 3997, 4011, 4018, 4025, 4032, 4046, 4053, 4060, 4067, 4081, 4088, 4095, 4102, 4116, 4123, 4130, 4137, 4151, 4158, 4165, 4172, 4186, 4193, 4200, 4207, 4214, 4221, 4235, 4242, 4249, 4256, 4263, 4277, 4284, 4291, 4298, 4312, 4319, 4326, 4333, 4347, 4354, 4361, 4375, 4382, 4389, 4396, 4410, 4417, 4424, 4431, 4445, 4452, 4459, 4466, 4480, 4487, 4494, 4501, 4515, 4522, 4529, 4536, 4550, 4557, 4564, 4571, 4585, 4592, 4599, 4606, 4613, 4627, 4634, 4641, 4648, 4662, 4669, 4676, 4683, 4697, 4704, 4711, 4718, 4732, 4739, 4746, 4753, 4767, 4774, 4781, 4788, 4802, 4809, 4816, 4823, 4837, 4844, 4851, 4858, 4872, 4879, 4886, 4893, 4907, 4914, 4921, 4928, 4942, 4949, 4956, 4963, 4977, 4984, 4991, 5005, 5012, 5019, 5026, 5033, 5047, 5054, 5061, 5075, 5082, 5089, 5096, 5110, 5117, 5124, 5131, 5138, 5152, 5159, 5166, 5173, 5187, 5194, 5201, 5208, 5215, 5222, 5236, 5243, 5250, 5257, 5271, 5278, 5285, 5292, 5306, 5313, 5320, 5327, 5341, 5348, 5355, 5362, 5376, 5383, 5390, 5397, 5411, 5418, 5425, 5432, 5446, 5453, 5460, 5467, 5481, 5488, 5495, 5502, 5516, 5523, 5530, 5537, 5551, 5558, 5565, 5572, 5586, 5593, 5600, 5607, 5614, 5621, 5635, 5642, 5649, 5656, 5670, 5677, 5684, 5691, 5705, 5712, 5719, 5726, 5733, 5747, 5754, 5761, 5768, 5782, 5789, 5796, 5803, 5817, 5824, 5831, 5838, 5852, 5859, 5866, 5873, 5887, 5894, 5901, 5908, 5915, 5922, 5936, 5943, 5950, 5957, 5971, 5978, 5985, 5992, 6006, 6013, 6020, 6027, 6041, 6048, 6055, 6062, 6076, 6083, 6090, 6097, 6111, 6118, 6125, 6132, 6146, 6153, 6160, 6167, 6181, 6188, 6195, 6202, 6216, 6223, 6230, 6237, 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9142, 9149, 9156, 9163, 9177, 9184, 9191, 9198, 9212, 9219, 9226, 9233, 9247, 9254, 9261, 9275, 9282, 9289, 9296, 9310, 9317, 9324, 9331, 9345, 9352, 9359, 9366, 9380, 9387, 9394, 9401, 9415, 9422, 9429, 9436, 9450, 9457, 9464, 9471, 9485, 9492, 9499, 9506, 9520, 9527, 9534, 9541, 9555, 9562, 9569, 9576, 9590, 9597, 9604, 9611, 9618, 9625, 9639, 9646, 9653, 9660, 9674, 9681, 9688, 9695, 9709, 9716, 9723, 9730, 9744, 9751, 9758, 9765, 9779, 9786, 9793, 9800, 9807, 9814, 9821, 9835, 9842, 9849, 9856, 9870, 9877, 9884, 9891, 9905, 9912, 9919, 9926, 9933, 9947, 9954, 9961, 9968, 9982, 9989, 9996, 10000, 10007, 10014, 10021, 10035, 10042, 10049, 10056, 10063, 10077, 10084, 10091, 10098, 10112, 10119, 10126, 10133, 10147, 10154, 10161, 10168, 10182, 10189, 10196, 10203, 10217, 10224, 10231, 10238, 10252, 10259, 10266, 10273, 10287, 10294, 10301, 10308, 10322, 10329, 10336, 10343, 10357, 10364, 10371, 10378, 10392, 10399, 10406, 10413, 10427, 10434, 10441, 10448, 10462, 10469, 10476, 10483, 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11736, 11743, 11750, 11757, 11771, 11778, 11785, 11792, 11806, 11813, 11820, 11827, 11841, 11848, 11855, 11862, 11876, 11883, 11890, 11897, 11911, 11918, 11925, 11932, 11946, 11953, 11960, 11967, 11981, 11988, 11995, 12002, 12016, 12023, 12030, 12037, 12044, 12051, 12058, 12072, 12079, 12086, 12093, 12107, 12114, 12121, 12128, 12142, 12149, 12156, 12163, 12177, 12184, 12191, 12198, 12212, 12219, 12226, 12233, 12247, 12254, 12261, 12268, 12282, 12289, 12296, 12303, 12317, 12324, 12331, 12338, 12352, 12359, 12366, 12373, 12387, 12394, 12401, 12408, 12415, 12422, 12436, 12443, 12450, 12457, 12471, 12478, 12485, 12492, 12506, 12513, 12520, 12527, 12541, 12548, 12555, 12562, 12576, 12583, 12590, 12597, 12611, 12618, 12625, 12632, 12646, 12653, 12660, 12667, 12681, 12688, 12695, 12702, 12709, 12716, 12723, 12737, 12744, 12751, 12758, 12772, 12779, 12786, 12793, 12807, 12814, 12821, 12828, 12842, 12849, 12856, 12863, 12877, 12884, 12891, 12898, 12912, 12919, 12926, 12933, 12947, 12954, 12961, 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```
d=dict()

for i in range(1,n+1):
    d[i]=i*i

print(d)
```

With a given integral number n, write a program to generate a dictionary that contains (i, i²) 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}

```
[4]

n=int(input())

d=dict()

for i in range(1,n+1):
    d[i]=i*i

print(d)
```

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