

**Assignment -1**  
Python Programming

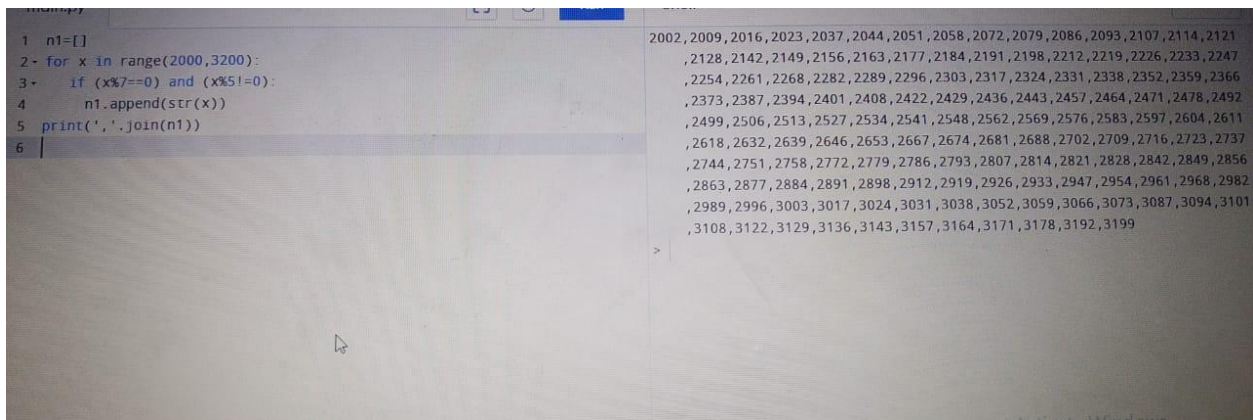
Assignment Date	19 September 2022
Team ID	PNT2022TMID51683
Project Name	Nutrition Assistant Application
Maximum Marks	2 Marks

**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:**

```
n1=[]  
  
for x in range(2000, 3200):  
    if (x%7==0) and (x%5!=0):  
        n1.append(str(x))  
  
print (' ','.join(n1))
```



The screenshot shows a Python script in a code editor on the left and its output in a terminal window on the right. The script defines an empty list `n1`, iterates over the range `2000` to `3200`, and appends numbers that are divisible by 7 but not by 5 to the list. Finally, it prints the list elements joined by commas. The terminal output displays a long sequence of such numbers, starting from 2002 and ending at 3199.

```
1 n1=[]  
2 for x in range(2000,3200):  
3     if (x%7==0) and (x%5!=0):  
4         n1.append(str(x))  
5 print(' ','.join(n1))  
6
```

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

**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:

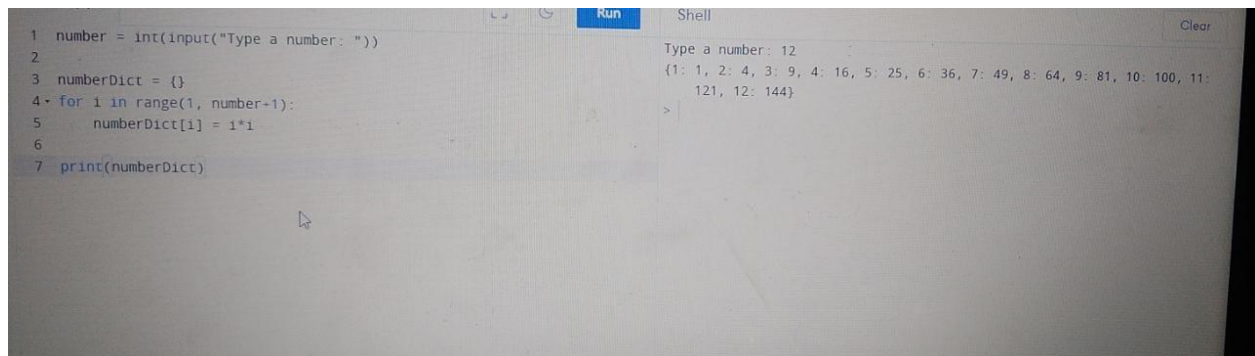
```
number = int(input("Type a number: "))
```

```
numberDict = {}
```

```
for i in range(1, number+1):
```

```
    numberDict[i] = i*i
```

```
print(numberDict)
```



```
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)
```

Run Shell Clear

Type a number: 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}