

ASSIGNMENT-I

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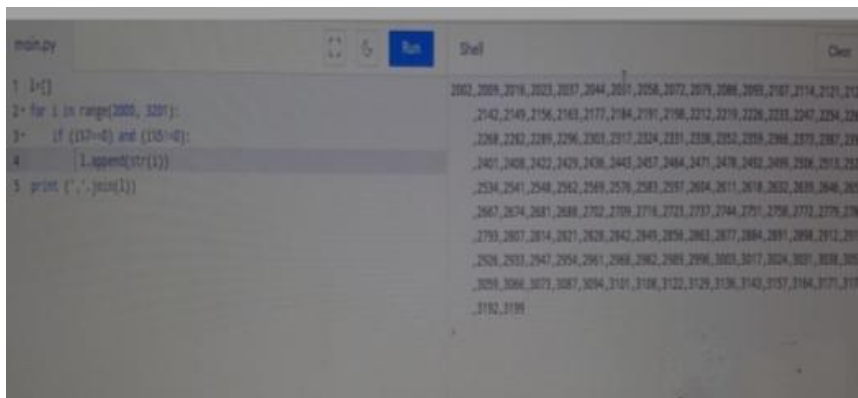
Question-1:

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

A screenshot of a Python IDE window titled 'main.py'. The code 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))
```

The 'Run' button is highlighted in blue. The output is displayed on the right side of the window, showing a long list of numbers separated by commas, starting from 2002 and ending at 3193.

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

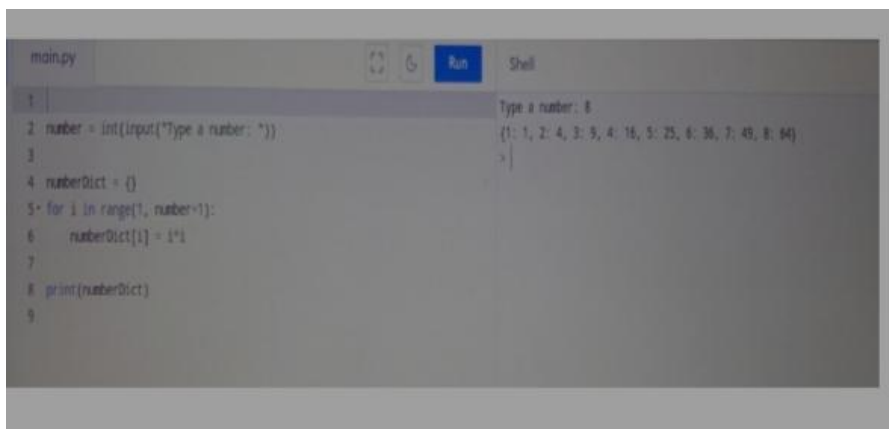
Then, the output should be:

{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)
```

OUTPUT



```
main.py  Run  Shell
1
2 number = int(input("Type a number : "))
3
4 numberDict = {}
5 for i in range(1, number+1):
6     numberDict[i] = i*i
7
8 print(numberDict)
9
```

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

OUTPUT