

## ASSIGNMENT-I

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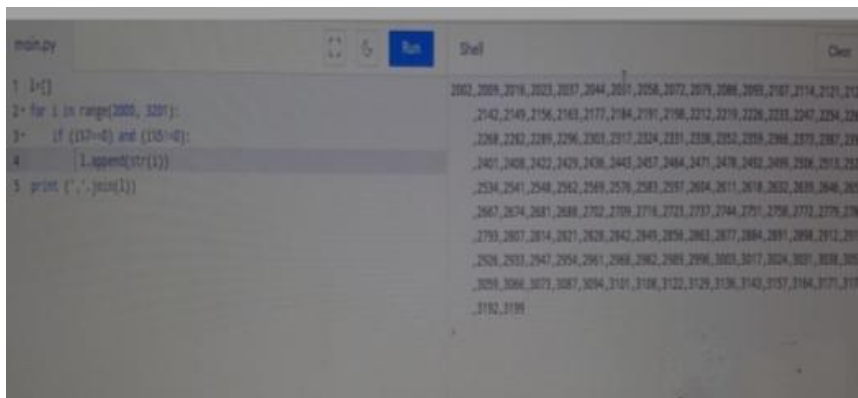
### Question-1:

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



The screenshot shows a Python IDE with a file named '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 output of the program is displayed on the right side of the IDE, showing a long list of numbers separated by commas, representing all numbers between 2000 and 3200 that are divisible by 7 but not by 5.

### 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*

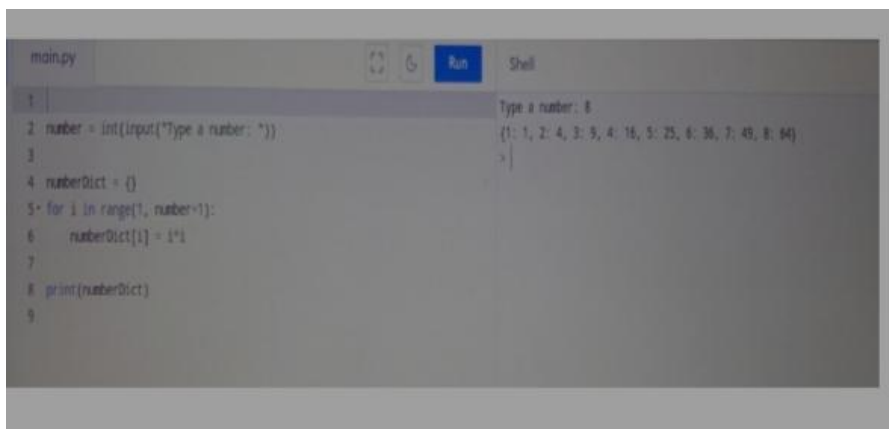
*Then, the output should be:*

*{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