

Assignment -1
Python Programming

Assignment Date	1 September 2022
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Student Roll Number	19P101
Maximum Marks	2 Marks

Question-1:

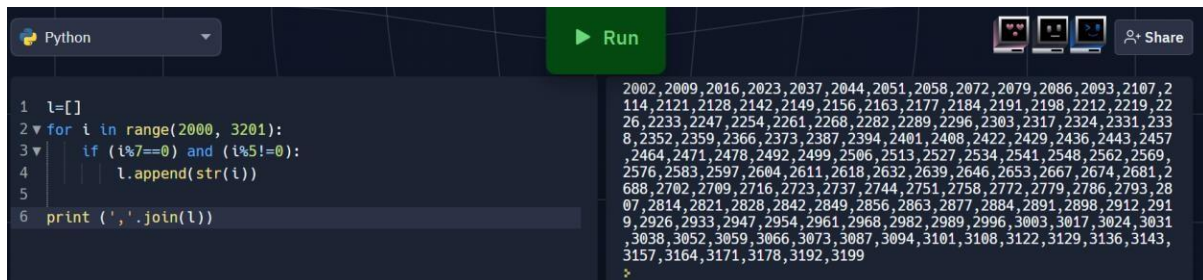
Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Solution:

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

print(','.join(l))

#_____#
#_____#
```

A screenshot of a Python IDE interface. On the left, a dark-themed code editor shows the following Python code:

```
1 l=[]
2 for i in range(2000, 3201):
3     if (i%7==0) and (i%5!=0):
4         l.append(str(i))
5
6 print(','.join(l))
```

On the right, a green 'Run' button is visible above a text area displaying the output of the program: a long comma-separated list of numbers from 2002 to 3199, specifically those divisible by 7 but not by 5. The output is wrapped across multiple lines.

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

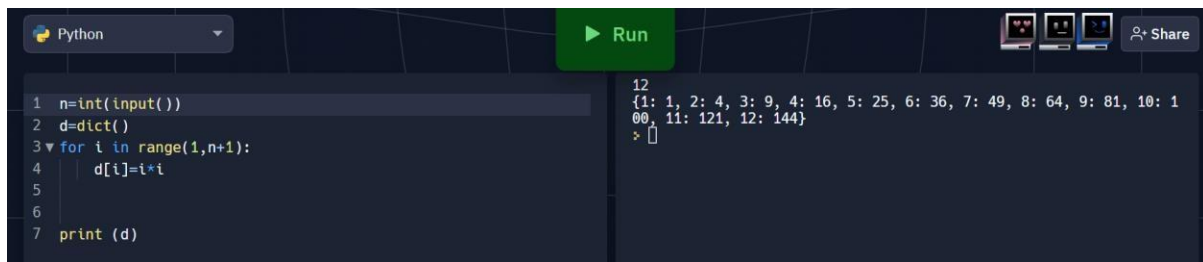
Then, the output should be:

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

Solution:

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

print d
# .....#
# .....#
```



The screenshot shows a Python IDE with a dark theme. The left pane contains the following code:

```
1 n=int(input())
2 d=dict()
3 for i in range(1,n+1):
4     d[i]=i*i
5
6
7 print (d)
```

The right pane shows the output of the program, which is a dictionary containing squares of numbers from 1 to 12:

```
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}
```

At the top of the IDE, there is a 'Python' dropdown menu, a green 'Run' button, and a 'Share' button.