

Assignment -4
Python Programming

Assignment Date	1 November 2022
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Maximum Marks	2 Marks

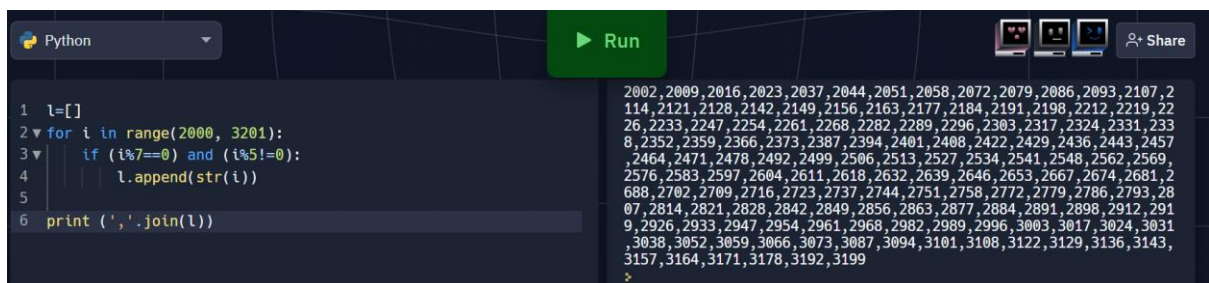
Question-1:

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 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))
```

A green 'Run' button is visible above the code. On the right, the output of the program is displayed as a long, single-line string of numbers separated by commas, ranging from 2002 to 3199. The output is truncated at the end with a '...'.

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()
```

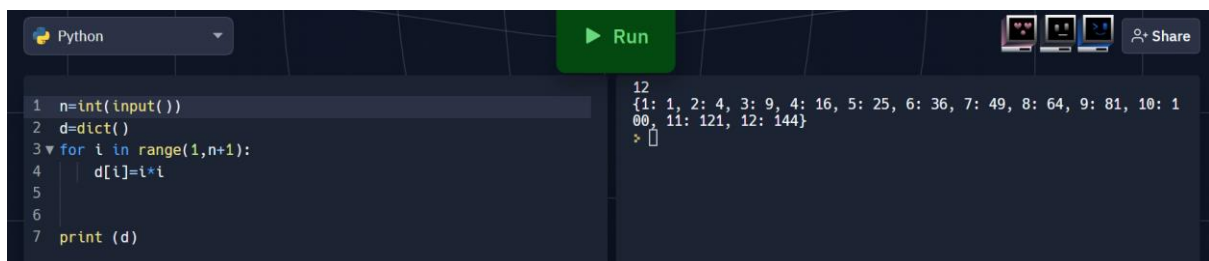
```
for i in range(1,n+1):
```

```
    d[i]=i*i
```

```
print d
```

```
#-----#
```

```
#-----#
```



The screenshot shows a Python IDE interface. On the left, a code editor contains the following Python 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)
```

On the right, there is a 'Run' button and a 'Share' button. Below the code editor, the output of the program is displayed. It shows the number '12' followed by a dictionary: {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144}. The output is preceded by a prompt character '➤'.