

Assignment
Python
Programming

Assignment Date	1 September 2022
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Student Roll Number	19BCS4063
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:

```
list1=[]
for num in range(2000, 3201):
    if (num%7==0) and
    (num%5!=0):
        list1.append(str(num))

print(','.join(list1))
# .....#
# .....#
```

The screenshot shows a Python IDE with a file named 'main.py'. The code in the file is as follows:

```
1 list1=[]
2 for num in range(2000, 3201):
3     if (num%7==0) and (num%5!=0):
4         list1.append(str(num))
5 print(','.join(list1))
6
```

The output of the program is displayed in the console window below the editor. It shows a long list of numbers, separated by commas, which are the numbers between 2000 and 3200 that are divisible by 7 but not by 5. The output ends with '...Program finished with exit code 0' and 'Press ENTER to exit console.'

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 window titled 'main.py' with the following code:

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

The output console shows the execution result:

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

Below the output, the console displays: `...Program finished with exit code 0` and `Press ENTER to exit console.`