

## Assignment

### Python

### Programming

Assignment Date	1 September 2022
Student Name	Roshni M
Student Roll Number	19BCS4103
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 the following code in a file named 'main.py':

```
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, showing a long comma-separated list of numbers from 2002 to 3199 that are divisible by 7 but not by 5. The output ends with the message: "...Program finished with exit code 0 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 with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Python 3. The code editor displays the following Python code:

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

Below the code editor, the output console shows the result of running the program:

```
Input
1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64]
...Program finished with exit code 0
Press ENTER to exit console.
```