

Assignment -1
Python Programming

Assignment Date	19 September 2022
Student Name	S.Padma Priya
Student Roll Number	9517201903100
Maximum Marks	2 Marks

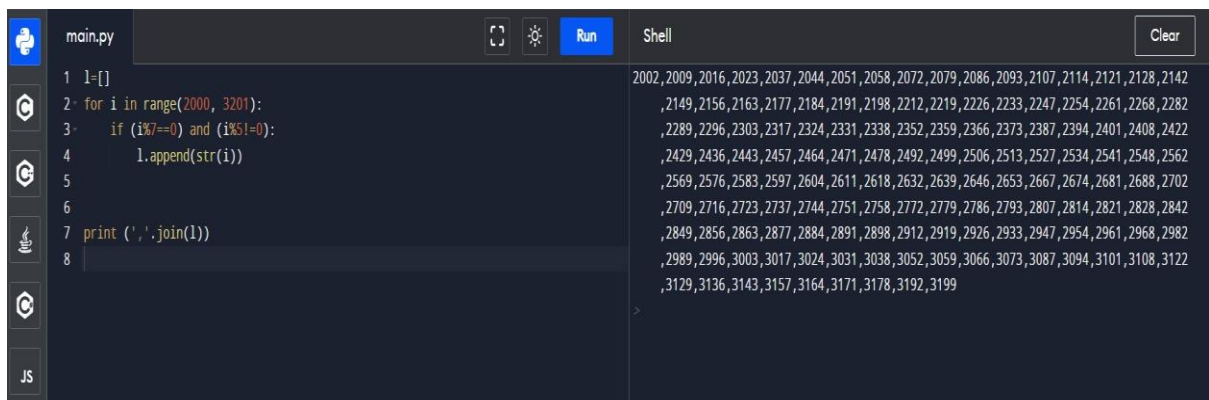
Question-1:

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 sidebar shows icons for Python, a file explorer, a search bar, and a JS tab. The main editor area is titled 'main.py' and contains the following 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
7 print(','.join(l))
8
```

On the right, a 'Shell' window displays 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. A 'Run' button is visible above the shell window, and a 'Clear' button is in the top right corner of the shell window.

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 two windows. The left window, titled 'prob2.py', contains the following code:

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

print (d)
```

The right window, titled 'IDLE Shell 3.9.6', shows the output of the script. It displays the Python version and architecture, followed by a prompt for help. The user has entered '12', and the script has executed, printing the 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}.