ASSIGNMENT-I

TECHNOLOGY- ARTIFICIAL INTELLIGENCE

DOMAIN- VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

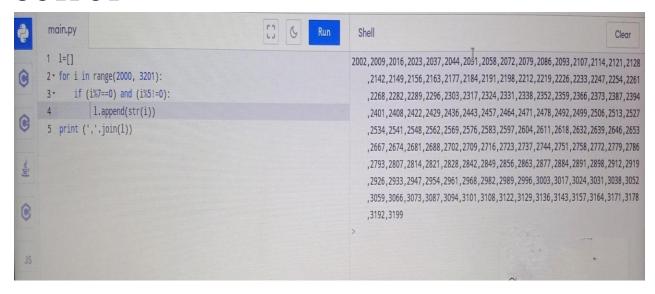
Question-1:

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))
```

OUTPUT



Question-2:

With a given integral number n, write a program to generate a dictionary that contains (i, i*i) such that 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

```
number = int(input("Type a number : "))
numberDict = {}
for i in range (1,number+1):
    numberDict[i] = i*i
    print(numberDict)
```

OUTPUT

```
Type a number: 8

2 number = int(input("Type a number: "))

3

4 numberDict = {}

5 for i in range(1, number+1):

6 numberDict[i] = i*i

7

8 print(numberDict)

9
```

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