ASSIGNMENT-I

TECHNOLOGY-ARTIFICIALINTELLIGENCE

DOMAIN-VirtualEye-LifeGuardforSwimmingPoolstoDetectActiveDrownin g

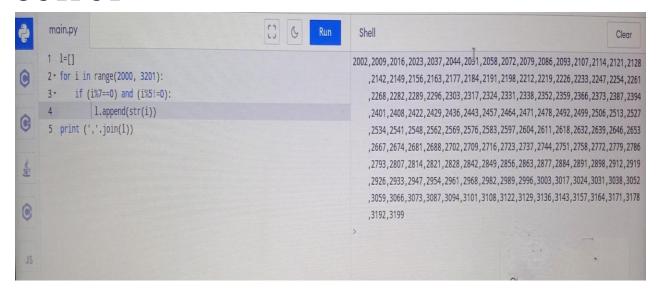
Question-1:

Writeaprogramwhichwillfindallsuchnumberswhichare 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=[]
foriinrange(2000,3201):
    if(i%7==0)and(i%5!=0):1.append(str(i))
print(','.join(l))
```

OUTPUT



Question-2:

Withagivenintegralnumbern, writeaprogramtogeneratea dictionary that contains (i, i*i) such that is an integralnumber between 1 and n (both included). and then the programs hould 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("Typeanumber:"))numberDict={
}
foriinrange(1,number+1):

numberDict[i] =
i*iprint(numberDict)
```

OUTPUT

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