Assignment 15

1.Please write a program using generator to print the numbers which can be divisible by 5 and 7 between 0 and n in comma separated form while n is input by console.

2.Please write a program using generator to print the even numbers between 0 and n in comma separated form while n is input by console.

0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,

3. The Fibonacci Sequence is computed based on the following formula:

f(n)=0 if n=0

f(n)=1 if n=1

f(n)=f(n-1)+f(n-2) if n>1

Please write a program using list comprehension to print the Fibonacci Sequence in comma separated form with a given n input by console.

4.Assuming that we have some email addresses in the "username@companyname.com" format, please write program to print the user name of a given email address. Both user names and company names are composed of letters only.

5.Question 5:

Out[31]: 'lari'

36 0

Define a class named Shape and its subclass Square. The Square class has an init function which takes a length as argument. Both classes have a area function which can print the area of the shape where Shape's area is 0 by default.

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In [33]: class Shape():
    def __init__(self):
        pass
    def area(self):
        return 0

class Square(Shape):
    def __init__(self, length = 0):
        Shape.__init__(self)
        self.length = length

    def area(self):
        return self.length*self.length

First = Square(6)
print(First.area())
print(Square().area())
```

In []: