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

```
In [5]: def generate(n):
    for i in range(n+1):
        if i % 35 == 0:
            yield i

    n = int(input())
    resp = [str(i) for i in generate(n)]
    print(",".join(resp))

100
    0,35,70
```

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

[0, 1, 1, 2, 3, 5, 8]

0

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

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.

```
import re

email = "john@google.com elise@python.com"
    pattern = "\w+@(\w+).com"
    ans = re.findall(pattern, email)
    print(ans)

['google', 'python']
```

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.