Recursion to find GCD

```
def findgcd(x,y):
    while(x!=y):
        if(x>y):
            return findgcd(x-y,y)
        else:
            return findgcd(x,y-x)

    return x;


x=int(input("enter first number"))
y=int(input("enter second number"))
z=findgcd(x,y)
print(z)
```

Recursion to find Fibonacci series:

```
def fib(n):
   if n == 0:
      return 0
   elif n == 1:
      return 1
   else:
      return fib(n-1)+fib(n-2)
```

```
n=int(input())
for i in range(0,n):
   print(fib(i))
```

Recursion to find factiorial

```
def fact(n):
   if n==1:
      return (1)
   else:
      return (n * fact(n-1))

n=int(input())
res=fact(n)
print(res)
```