



6

```
def factorial(n):  
    if n == 1:  
        return 1  
    else:  
        return n * factorial(n-1)  
  
print(factorial(5))  
#120 (5*4*3*2*1)
```

Recursion

Recursive Functions

A function can call itself, using the stack to keep track of the returned values. In this example the function does not call itself after counting down to 1, otherwise the recursion would continue until all the memory for the stack is used.