COSC 101: Fall 2017
Lecture 22: Recursion

1) Take a look at the following Function.

   a) What makes this a recursive function?

```
def downup(s):
    if len(s) <= 1:
        print s
    else:
        print s
downup(s[:-1])
    print s
```

   b) What is the base case?

   c) What is the recursive case?
d) With a partner trace through the code. What does the code do?

2) We want to write a recursive function to compute the factorial of n.

a) What would the base case look like?

b) What does the recursive case look like?

c) Write the function.