

# CSC 212 Tutorial # 7

## Recursion

16/11/2014

### Problem 1

Write a method *exponent* that calls itself recursively to calculate the exponent of any positive integer.

```
public static int exponent(int base, int exp) {  
  
    // complete the code here  
  
}
```

### Examples:

exponent(2,3) returns 8

exponent(3,2) returns 9

### Problem 2

Write a method *sum1toN* that calls itself recursively to calculate the sum of integers from 1 to n.

```
public static int sum1toN(int n) {  
  
    // complete the code here  
  
}
```

### Examples:

sum1toN(5) returns 15

sum1toN(4) returns 10