

COSC 201 – Lab #8

Recursive isn't a form of writing.

Purpose: Recurse!

Tasks:

- 1.) Open Eclipse and start a new Java Project called Recursion Project
- 2.) Add a new class called recursionFun. recursionFun will have no extra fields or methods aside from main and two recursive methods. The first is called called Power. Power has the signature:

```
public int Power (int x, int y)
```

Power returns the result for x to the power of y. You will need to figure this out recursively.

- 3.) Add a method called permute that will have the signature:

```
public void permute( String s1, String s2 )
```

Permute prints out all permutations of s2. For instance if s2 = "abc" it will output abc, acb, bac, bca, cba, cab. Use recursion.

- 4.) Create a main that will test these two methods.
- 5.) Turn in your code via the Digital Dropbox in Blackboard.