**Data Structures and Algorithms**

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**Lab report: 7**

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**Lab 07**

**Implementation of Recursion**

**In-Lab Task 01:**

**Convert the following iterative function to a recursive one.**

The greatest common divisor of two numbers (integers) is the largest integer that divides both the numbers. GCD can be implemented as a recursive function because if b does not divide a , then we call the

same function (GCD) with another set of parameters that are smaller than the original ones. Here

we assume that a > b. However, if a < b, then interchange a and b in the formula given above. Your task is to write an iterative function for computing GCD.

**Post Lab**

Write a program to reverse a string using recursion.