## COSC 251 - Lab \#8

Lisping in the darkness.

Purpose: Get used to using emacs and LISP.
Task: For this lab, I'd like you to create three functions (like we have for previous languages). Two of these functions should be familiar to you: summation and Fibonacci. The third function will be to create an approximation of $\pi$ using a form of the Gregory-Leibniz series:

$$
\pi=4 \sum_{i=0}^{n}(-1)^{k} / 2 k+1=4-4 / 3+4 / 5-4 / 7+4 / 9-\ldots
$$

Note that n should be passed as a parameter to the functions you create.

Each function should return the value as appropriate, not printed.
Deliverable: the lisp code that you create. It must be submitted via Digital Dropbox.

Due: By the start of class Monday. No exceptions. To be turned in via Digital Dropbox.

