CISC 280 Spring 2007 Lab 11

1. Download and run the meta-circular evaluator from the SICP website. You might need to make a minor change to get things to load correctly; then set up the global environment and start the driver loop. Hint: 1) use TAGS (easiest) or the search function in your editor (a little harder) to figure that out in the code; 2) the comments in the mc-eval code are very helpful.

Once the interpreter is running, try a few expressions and see what tasks you can and cannot perform. Can you make lists? use assignment? define and call functions?

Locate the place in the file that defines primitives, and define a new primitive called "plus" that is bound to '+' in the underlying scheme. Demonstrate that using the new operator plus is closed under combination.

If you need to submit (see syllabus if you are unsure) submit your code file(s) and a script of several well-chosen test cases via MyCourses (due Thursday midnight) and on paper (to your TA's mailbox Friday by 1 p.m.) to receive full credit.

When you use MyCourses, remember that you can "upload" files multiple times, but you only click "submit" once.