# CSE 3302 Lab Assignment 4

## Due August 6, 2014

#### Goals:

Further understanding of JavaScript and elementary compiler/interpreter concepts.

## **Requirements:**

- 1. Extend a lab 2 solution with the capability of accessing the cursor position in a canvas to PL/0:
  - a. Two built-in variables, cvx and cvy, should be available to PL/0 programs.
  - b. mousemove events over the canvas will change cvx and cvy.
  - c. mouseout events should set both cvx and cvy to -9999999.
- 2. In addition, you should also extend PL/0 with C-like arrays:
  - a. An array may be included in a var declaration as *arrayName* { *arrayLength* } where *arrayLength* is either a number or a previously declared constant. The legal subscripts for this array will be in the range [0, *arrayLength*).
  - b. Both the compiler and interpreter will need changes
- 3. Email your *zipped* files to sourabh.bose@mavs.uta.edu by 12:45 p.m. on August 6. MavMail will block a number of file types/extensions, including .js. The body of your message should indicate the browser(s) you tested with.

## **Getting Started:**

- 1. Useful files, including my solution to lab 2, are at: http://ranger.uta.edu/~weems/NOTES3302/LAB4SUM14/
- 2. PL/0 code lacking suitable calls to wait or not checking for mouseout situations will cause problems for the interpreter.
- 3. Be sure to document the base code you are using.