

CS4850 L4850 Interpreter Project 3
Due Date: Wednesday, December 4, 2013 @ 8am

Purpose

The purpose of this project is to gain experience in giving meaning to a programming language by interpreting function and variable definitions and references in L4850.

Project Summary

In this project, you will need to implement an interpreter of the abstract syntax that you generated in Project 1. For full credit, you must use the modified visitor pattern we developed in class. Specifically, your interpreter must be able to

1. Evaluate any abstract syntax generated for
 - a) With expressions,
 - b) Variable references,
 - c) Defunc expressions
 - d) Function calls for user defined functions.
2. Perform dynamic type checking including detecting undefined variable references and ensuring that the number of parameters on a call to a user-defined function is the same as the number in the function definition.

Submission

Write all of your code in Java. I have provided my solution to Project 2 on E-Learning. You may download and use my source if you wish. In addition, I have provided the set of test input on E-learning.

Your code should be well-documented. You will submit an archive file of all of your work. In Eclipse, you must first export an Ant build file and then export an archive file of your project. Name the archive project3.zip and submit that via E-Learning.