## Problem Set 8 Comp 301 Fall 2021

Week 10: 06.12.2021 - 10.12.2021

## **Instructions:**

- Submit your answers to the Blackboard PS8 assignment until December 11th Saturday, at 23.59.
- Please use the code boilerplate, which includes several tests for you to see if your code is correct.
- Submit your code and PDF file to BlackBoard as a single zip file yourIDno\_username.zip. (Example: 123456\_akutuk21.zip)

**Problem 1.**: Write an unparse function, which works similar to unparse-lc-exp but now, it handles with the cases of PROC language. It takes an abstract syntax tree and build the expression. Below is an example:

Hint: You need to make changes in interp.scm

**Hint**: You need to use string-append function to append a list of string into a single string. You can check its usage here

**Problem 2.**: Write an unparse function, which is similar to what you have done in Problem 1, but now it handles expressions of LEXADDR language. So, instead of a regular abstract syntax tree, you need to handle translated abstract syntax tree.

**Hint**: Check lang.scm and see which expressions are different than PROC language. Then, you make changes in interp.scm

**Note**: You are provided a function translate under top.scm. You can use it to discover how a translated AST looks like. Use the inputs from test cases and observe their ASTs.