

Pseudocode Design

Design Requirements:

The design for this lab (lab5) is a continuation from lab4 with the following modification and requirements:

- Retain all functionalities including output from lab4.
- Create an Identifier Class inherit from Token and modify the Binary Tree to only hold Identifiers.
- Then get rid of **LiteralType** as a type and use inheritance from a **Literal** Class instead. We will inherit StringLiteral, IntegerLiteral and RealLiteral classes from the Literal class.
- Move the methods and data that we need for the Binary Tree into the Identifier class and clean up the Token class

Design Change/Modification:

Please refer to the UML class diagram below for detail. The following five classes were added (.cpp and .h files) to meet the specified requirement. The Identifier class is inherited from the Token class and contains all method and data needed for the Binary Tree. The Literal (and its inheritance) are used to replace the existing LiteralType.

Identifier.cpp

Identifier.h

Literal.cpp

Literal.h

RealLiteral.cpp

RealLiteral.h

StringLiteral.cpp

StringLiteral.h

IntegerLiteral.cpp

IntegerLiteral.h

UML Class Diagram:

