

## CMPT 432 - SPRING 2022 - COMPILERS

Sean Kohler  
Sean.Kohler1@marist.edu

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Objective: This Lab we have a few tasks to accomplish. We must Read chapters 8.1-3 again and also 9.1 in the Crafting a Compiler book as well as Read chapters 2.8.3 and 6.5; reread chapter 6.3.1-6.3.3 in the Dragon book. We then must describe what is happening in the image below

# 1 Crafting a Compiler

This section contains the assignments from the Crafting a Compiler book

## 1.1 Chapters

For this lab we just had to read the chapters:  
8.1 - 3 again and also 9.1

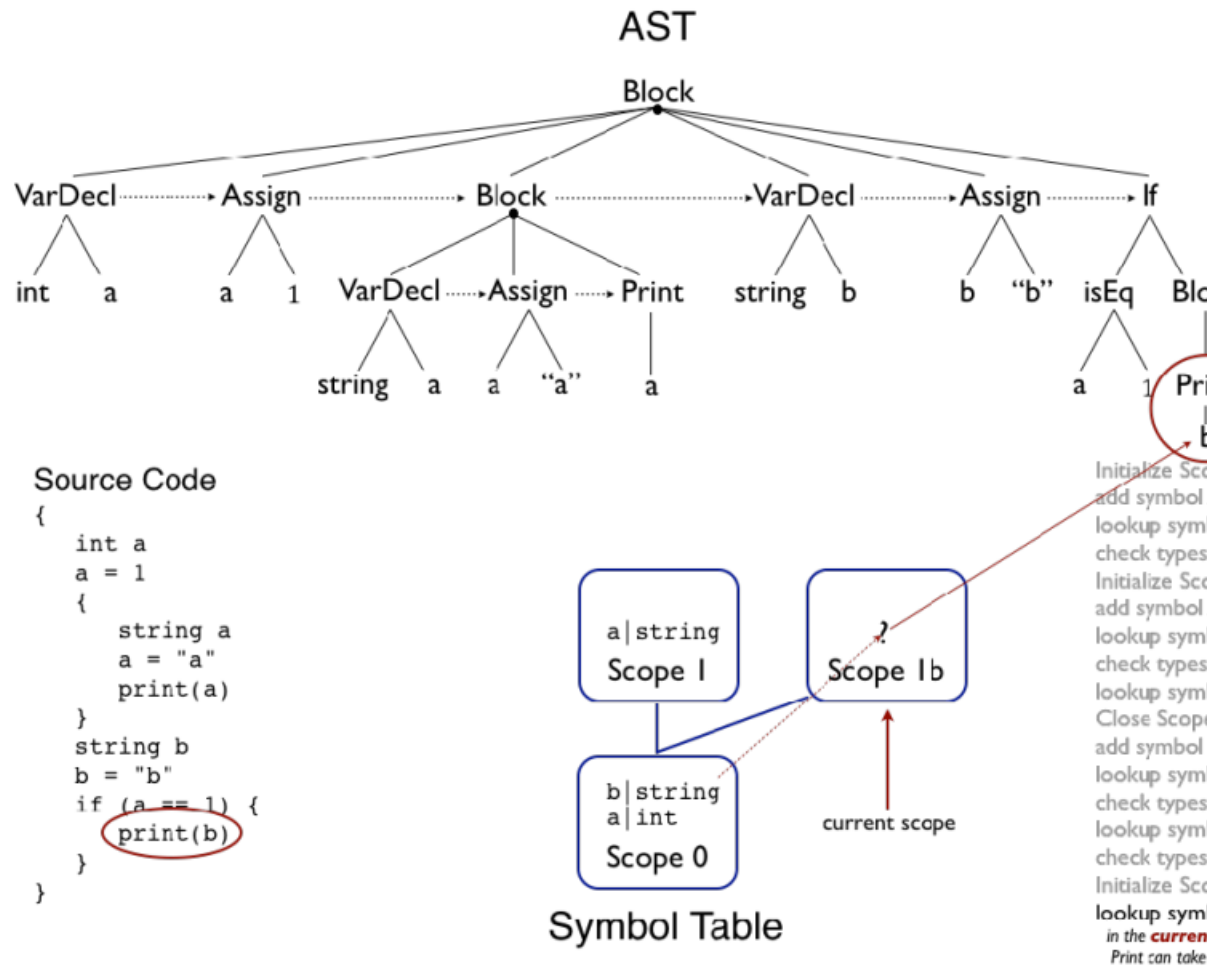
# 2 Dragon

This section contains the assignments from the Dragon book

## 2.1 Chapters

For this lab we just had to read the chapters:  
2.8.3 and 6.5; reread chapter 6.3.1-6.3.3

### 3 Image



#### 3.1 Description

In this image we are looking at the AST in how it relates to our Symbol table and the scope associated with it. Because that the current scope where the print statement is, does not contain a definition of the variable b, we must look to the parent scope to see if it is defined in there. Only if the variable is defined in a parent scope to the current scope are we allowed to reference outside our scope for variables that are not defined in our current scope.