San José State University
Department of Computer Science

CS 153
Concepts of Compiler Design

Fall 2024
Instructor: Ron Mak

Assignment #7

Assigned: Tuesday, October 29
Due: Thursday, November 14 at 4:00 PM
Team assignment, 100 points max

Project grammar

The purpose of this assignment is for each project team to create a preliminary version of its grammar.

Preliminary grammar

Create an ANTLR `.g4` grammar file for the programming language that your compiler will compile. This can be a preliminary version. You can make changes to it later for your final compiler.

Sample source code

Write some sample code (one or more source files) in your proposed language. Have ANTLR parse your code based on your grammar and generate graphical parse trees.

What to submit to Canvas

A zip file that contains:

- Your ANTLR `.g4` grammar file.
- Sample code in your proposed language.
- Screen shots of ANTLR-generated graphical parse trees.

Submit to **Assignment #7: Project Grammar**

Rubric

Your submission will be graded according to these criteria:

Criteria	Max points
• Grammar file	• 40
• Sample source code	• 30
• Parse trees	• 30