

LAB Assignment #3

Integration: Lexical Analyzer and Symbol Table

Course: Compiler Construction

Lab: Integration of Lexical Analyzer with Symbol Table

Instructor: Mr. Waheed Ahmad Khan

Deadline: Friday, 5/12/2025

Time: 6 PM

All students are required to follow these submission guidelines for lab assignment 3:

Implement all three parts of the lab manual:

Activity 1: Lexical Analyzer + Symbol Table (Basic Token Integration)

Activity 2: Symbol Table Updating with Types & Values

Graded Lab Task: Combined Token Generation + Symbol Table + Identifier Validation

After implementing the code, students must include the following in their submission:

Screenshot of the complete code for Activity 1

Screenshot of the output for Activity 1

Explanation (1–2 paragraphs) of how Activity 1 works

Screenshot of the complete code for Activity 2

Screenshot of the output for Activity 2

Explanation (1–2 paragraphs) of how Activity 2 works

Screenshot of the complete code for the Graded Lab Task

Screenshot of the output for the Graded Lab Task

Explanation (1–2 paragraphs) of how the graded task works

Combine all content into a single PDF file.

Upload the PDF on the portal