Lab Report2
Course Title: Compiler Design Lab   Course Code: CSE 314

Task1: Design a Lexical Analyzer Using Flex.

Objective: Write a lexical analyzer in Flex that:

- Reads a C-like source file.

- Identifies:

  - Keywords (int, float, if, else, return, etc.)

  - Identifiers

  - Numbers (integers and floating-point)

  - Operators (+, -, *, /, =, ==, etc.)

  - Punctuation (;, ,, (), {}, [])

- Ignores spaces, tabs, and comments.

Task2: Design an Arithmetic Expression Evaluator

Objective: Write a program using **Lex** and **Bison** that:

1. Reads an arithmetic expression from the user.

2. Supports:

   - Addition (+)
   - Subtraction (-)
   - Multiplication (*)
   - Division (/)
   - Parentheses ()

3. Evaluates the result and prints it.