

CS23602 COMPILER DESIGN

MID-SEMESTER LABORATORY ASSESSMENT

VI SEMESTER (N- BATCH)

Date: 24-2-2026

1. Write a lexer that: (10)
  - identifies HTML tags
  - counts opening vs closing tags
  - reports mismatches ( Example: `<div><p>Hello</div> Mismatched </div>`  )
  
2. Write a lexer for a tiny language that supports: (15)
  - keywords: `if, else, while, return`
  - identifiers
  - integers and floating-point numbers
  - operators: `+ - * / == != <= >=`
  - comments (`// single line, /* multi line */`)
  - Count how many of each token type appear.
  - Print line numbers for each token.