LEX Program: Count Pages, Lines, Words, and Characters

**count\_info.l**

%{

#include <stdio.h>

// Declare counters

int line\_count = 0;

int word\_count = 0;

int char\_count = 0;

// yyin is the input file pointer used by Lex

extern FILE \*yyin;

%}

%%

// Match newline

\n { line\_count++; char\_count++; }

// Match words (non-whitespace, non-newline)

[^\s\n]+ { word\_count++; char\_count += yyleng; }

// Match spaces and tabs

[ \t] { char\_count++; }

// Match any other character (e.g., punctuation)

. { char\_count++; }

%%

int main() {

// ✅ Hardcoded full path to input file — change this to match your actual path

FILE \*file = fopen("C:\\Users\\YourName\\Desktop\\input.txt", "r");

if (!file) {

perror("❌ Could not open input file");

return 1;

}

yyin = file; // Set Lex to read from the file

yylex(); // Start Lex scanning

fclose(file); // Close the file

// Calculate page count (60 lines per page)

int page\_count = (line\_count + 59) / 60;

// Display results

printf("\n File Statistics:\n");

printf("Pages : %d\n", page\_count);

printf("Lines : %d\n", line\_count);

printf("Words : %d\n", word\_count);

printf("Characters: %d\n", char\_count);

return 0;

}