## **Assignment No-3**

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## Q. Implement LEX/FLEX code to count the number of characters, words and lines in an input file.

```
%{
#include <stdio.h>
int char_count = 0; // To store character count
int word_count = 0; // To store word count
int line_count = 0; // To store line count
%}
%%
       { line_count++; } // Count lines when newline is encountered
\n
[\t]+ {/* Ignore spaces and tabs */}
[a-zA-Z]+ { word_count++; char_count += yyleng; } // Count words (letters only)
      { char_count++; } // Count every other character
%%
int yywrap() {
  return 1; // Return 1 to indicate the end of input
}
int main(int argc, char *argv[]) {
  if (argc != 1) {
   printf("Usage: %s\n", argv[0]);
   return 1;
  }
```

```
yyin = stdin; // Set the input to standard input (command line)

printf("Enter your text (Ctrl+Z followed by Enter to end input):\n");

yylex(); // Start lexical analysis

// Print the results in a neat format

printf("\n--- Results ---\n");

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

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

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

printf("-----\n");

return 0;
}
```

## **Output:**