**Design a lexical Analyzer to find the number of whitespaces and newline characters using C.**

**CODE:**

#include <stdio.h>

void lexicalAnalyzer(const char \*input) {

int spaces = 0, newlines = 0;

while (\*input) {

if (\*input == ' ') spaces++;

else if (\*input == '\n') newlines++;

input++;

}

printf("Whitespaces: %d\nNewlines: %d\n", spaces, newlines);

}

int main() {

char input[200];

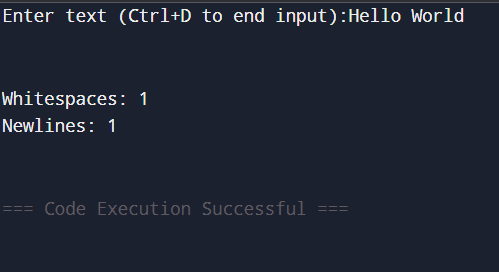
printf("Enter text (Ctrl+D to end input):\n");

fgets(input, sizeof(input), stdin);

lexicalAnalyzer(input);

return 0;

}

**OUTPUT:  
**