Compiler Design Assignment No 2

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1. Printing Hello World

Code:

%{

#include <stdio.h>

%}

%%

"print" { printf("Hello, World!\n"); exit(0);}

%%

int main() {

yylex(); // Start the lexer

return 0;

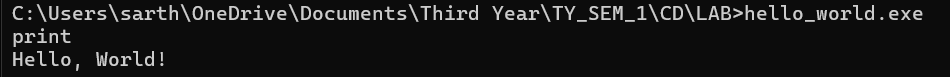
}

int yywrap() {

return 1; // Indicate end of input

}

Output:



1. To count the number of characters, words and lines in an input file.

i) Code:

%{

#include <stdio.h>

int word\_count = 0;

int char\_count = 0;

int line\_count = 0;

%}

%%

\n { line\_count++; }

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

%%

int main() {

yylex();

printf("Lines: %d\nWords: %d\nChars: %d\n", line\_count, word\_count, char\_count);

return 0;

}

int yywrap() {

return 1;

}

ii) Output:

For input file:

Hello my name is Sarthak

This is an example input file

Bye!!

Result:

