Question 26:

CODE:

%{

#include <stdio.h>

int c\_count = 0, l\_count = 0, w\_count = 0;

%}

%%

. { c\_count++; } /\* Count characters \*/

\n { l\_count++; } /\* Count lines \*/

[ \t]+ { /\* Ignore spaces and tabs \*/ }

[a-zA-Z0-9\_]+ { w\_count++; } /\* Count words \*/

%%

int main() {

yylex();

printf("Characters: %d\nLines: %d\nWords: %d\n", c\_count, l\_count, w\_count);

return 0;

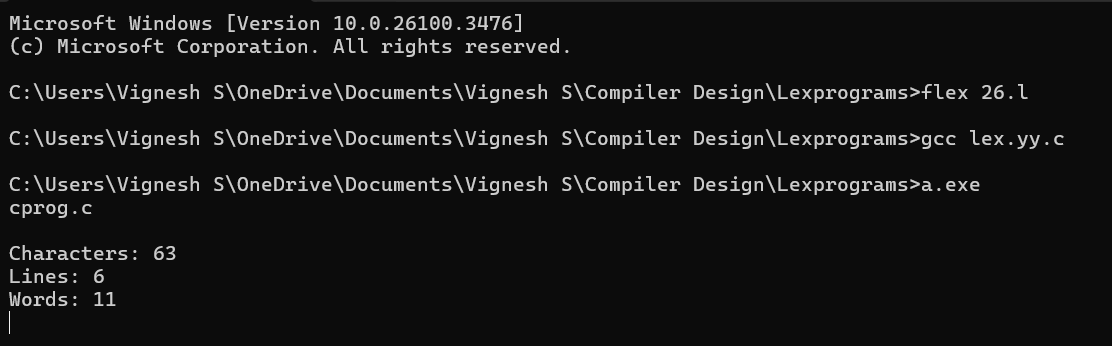
}

int yywrap() {

return 1;

}

OUTPUT:



Question 27:

CODE:

%{

#include <stdio.h>

%}

%%

[0-9]+(\.[0-9]+)? { printf("Constant: %s\n", yytext); } /\* Match integers and floats \*/

.|\n { /\* Ignore everything else \*/ }

%%

int main() {

yylex();

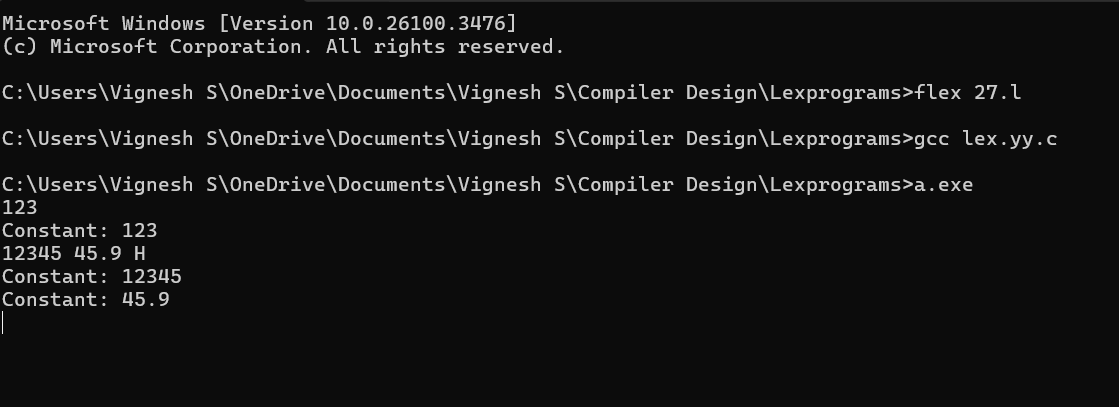
return 0;

}

int yywrap() {

return 1;

}



Question 28:

CODE:

%{

#include <stdio.h>

int macro\_count = 0, header\_count = 0;

%}

%%

^#define { macro\_count++; }

^#include { header\_count++; }

.|\n { /\* Ignore everything else \*/ }

%%

int main() {

yylex();

printf("Number of Macros: %d\nNumber of Header Files: %d\n", macro\_count, header\_count);

return 0;

}

int yywrap() {

return 1;

}

OUTPUT:

