21. Write a LEX specification count the number of characters, number of lines & number of words.

```
% {
#include <stdio.h>
int charCount = 0;
int lineCount = 0;
int wordCount = 0;
%}
%%
    { charCount++; }
     { lineCount++; }
[a-zA-Z]+ { wordCount++; }
%%
int main() {
  printf("Enter your text (Ctrl+D to end):\n");
  yylex();
  printf("\nNumber of Characters: %d\n", charCount);
  printf("Number of Lines: %d\n", lineCount);
  printf("Number of Words: %d\n", wordCount);
  return 0;
}
```

```
int yywrap() {
  return 1;
```

}

```
Microsoft Nindows [Version 18.8.22621.3887]
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C:\Users\91936>set path=\path=\path\path\path\path\path(\path)\path); C:\Program Files\GnuMin32\bin;

C:\Users\91936>d:

D:\Square [ax.yy.c]

D:\Square (Ctrl+D to end):
Compiler Design is the structure and set of principles that guide the translation, analysis, and optimization process of a compiler. A Compiler is computer of Characters: 50

Mumber of Characters: 50

Mumber of Characters: 50

Mumber of Characters: 50

Mumber of Mines: 2

Number of Mords: 48

D:\S
```