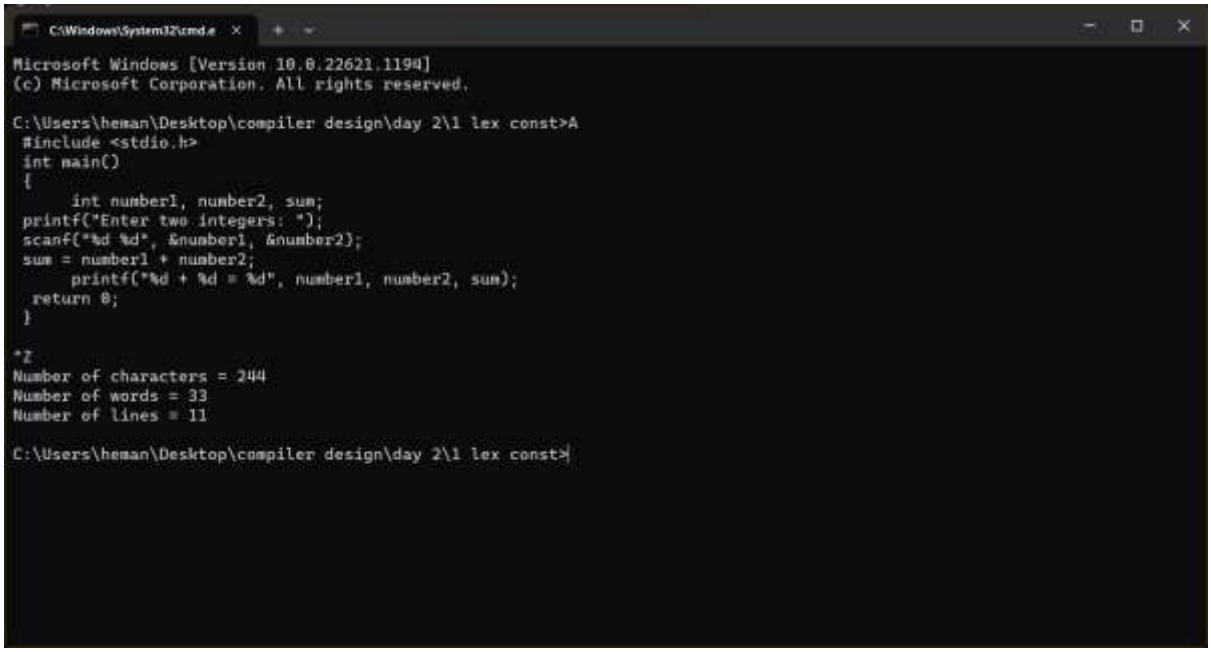
06.Write a LEX specification file to take input C program from a .c file and count the number of characters, number of lines & number of words.

```
%{
int nchar, nword, nline;
%}
%%
\n { nline++; nchar++; }
[^ \t\n]+ { nword++, nchar += yyleng; }
. { nchar++; }
%%
int yywrap(void) {
return 1;
}
int main(int argc, char *argv[]) {
yyin = fopen(argv[1], "r");
yylex();
printf("Number of characters = %d\n", nchar);
printf("Number of words = %d\n", nword);
printf("Number of lines = %d\n", nline);
fclose(yyin);
}
```


C:\Windows\System32\cmd.e
Microsoft Windows [Version 10.0.22621.1194]
(c) Microsoft Corporation. All rights reserved.
C:\Users\heman\Desktop\compiler design\day 2\1 lex const>A
#include <stdio.h>
int main()
{
int number1, number2, sum;
printf("Enter two integers: ");
scanf("%d %d", &number1, &number2);
sum = number1 + number2;
printf("%d + %d = %d", number1, number2, sum);
return 0;
}
^Z
Number of characters = 244
Number of words = 33
Number of lines = 11
C:\Users\heman\Desktop\compiler design\day 2\1 lex const>