EXP06:

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.

INPUT:

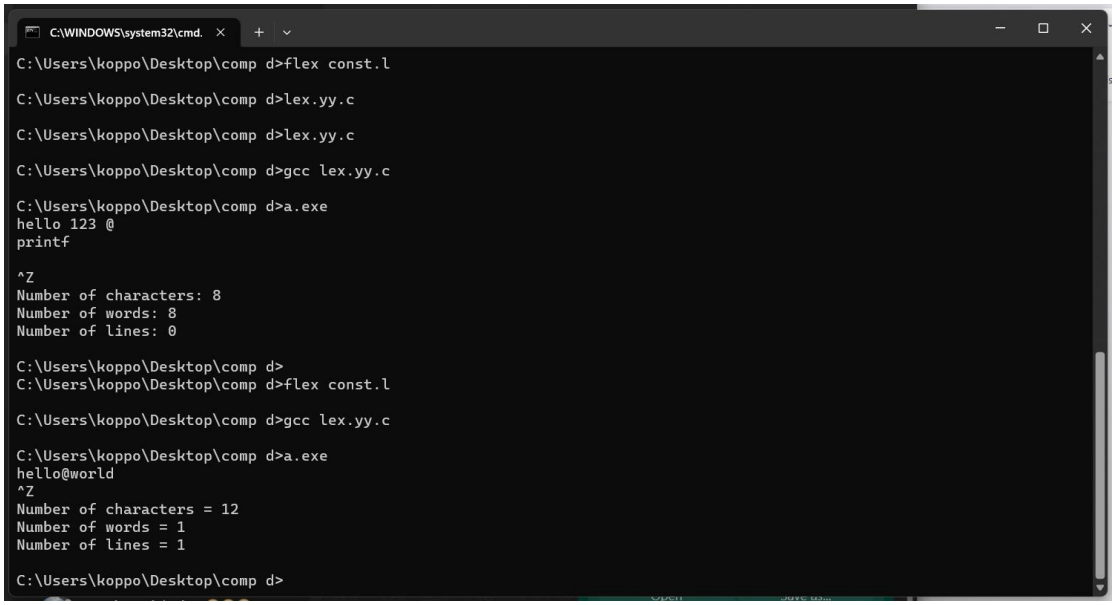
Program for input(sample.c):

```
#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;
}
```

Input(const.l):

```
%{
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);
}
```

OUTPUT:


C:\WINDOWS\system32\cmd.
C:\Users\koppo\Desktop\comp d>flex const.l
C:\Users\koppo\Desktop\comp d>lex.yy.c
C:\Users\koppo\Desktop\comp d>lex.yy.c
C:\Users\koppo\Desktop\comp d>gcc lex.yy.c
C:\Users\koppo\Desktop\comp d>a.exe
hello 123 @
printf
^Z
Number of characters: 8
Number of words: 8
Number of lines: 0
C:\Users\koppo\Desktop\comp d>
C:\Users\koppo\Desktop\comp d>flex const.l
C:\Users\koppo\Desktop\comp d>gcc lex.yy.c
C:\Users\koppo\Desktop\comp d>a.exe
hello@world
^Z
Number of characters = 12
Number of words = 1
Number of lines = 1
C:\Users\koppo\Desktop\comp d>