

## Experiment - 3 WAP to count the no of words, character, lines, using lex

Name: Rollno :  
Class : TE.CO Batch :

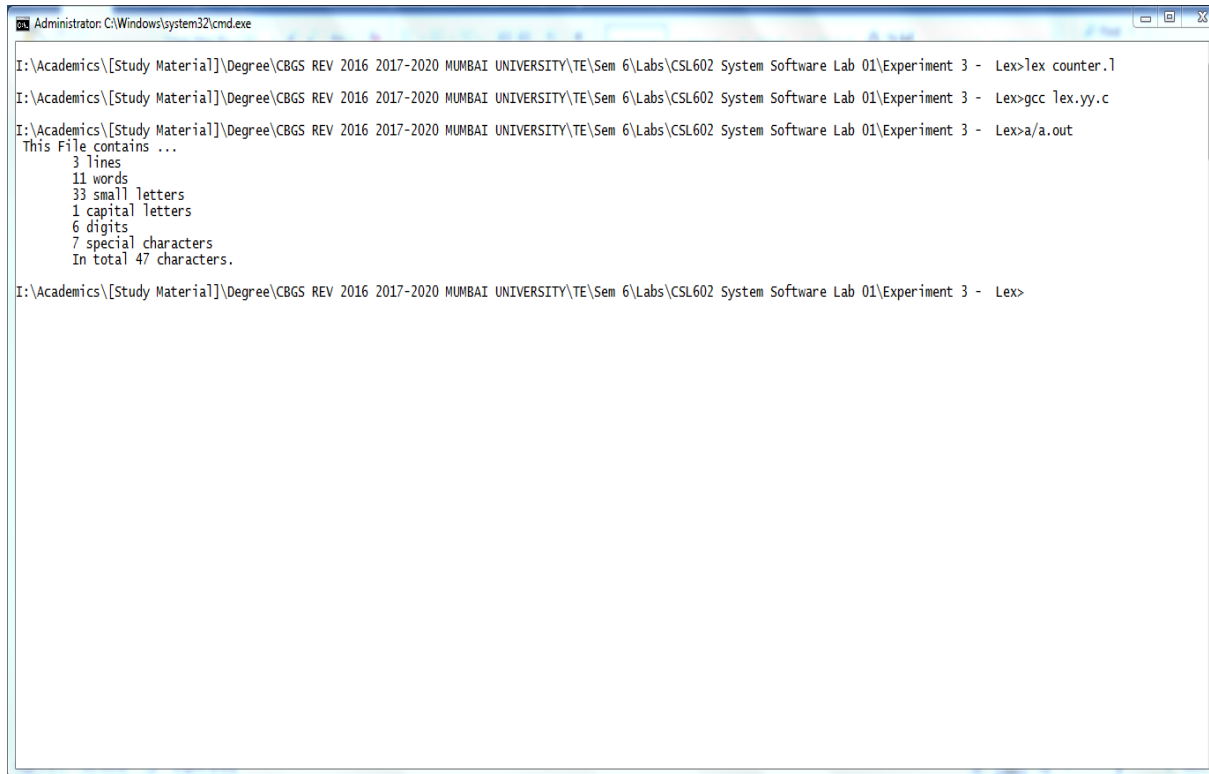
### #Source code for counter.l

```
% {  
#include<stdio.h>                                //section 1 including header files  
//declaring variable and using as pointer value  
int lines=0, words=0,s_letters=0,c_letters=0, num=0, spl_char=0,total=0;  
% }  
%%                                                //end of 1 section  
  
\n { lines++; words++;}                          //logic for the last word and each line  
[a-z] s_letters++;                               //if any small case letter is found  
[A-Z] c_letters++;                               //if any capital letters are found  
[. @# $!% ^ & * ( ) > < ? ~ ` " ' ; : ] spl_char++; //logic for special character  
[0-9] num++;                                     //logic for number from 0 to 9  
[ \t]+ words++;                                 //if any single whitespace or tabspace is found  
%%                                                //end of 2nd section  
  
int main(void)  
{  
yyin= fopen("input.txt","r"); //yyin is a input stream pointer opening input.txt in readmode  
yylex();                               //used to invoke lexer  
total=s_letters+c_letters+num+spl_char;  
printf(" This File contains ...");  
printf("\n\t%d lines", lines);  
printf("\n\t%d words",words);  
printf("\n\t%d small letters", s_letters);  
printf("\n\t%d capital letters",c_letters);  
printf("\n\t%d digits", num);  
printf("\n\t%d special characters",spl_char);  
printf("\n\tIn total %d characters.\n",total);    //displaying total number values  
}  
  
int yywrap()  
{  
return(1);  
}
```

## #Content of input.txt

This is the input for!!!!  
the lex program with @#\$  
123456

## #Output



```
Administrator: C:\Windows\system32\cmd.exe
I:\Academics\[Study Material]\Degree\CBGS REV 2016 2017-2020 MUMBAI UNIVERSITY\TE\Sem 6\Labs\CSL602 System Software Lab 01\Experiment 3 - Lex>lex counter.l
I:\Academics\[Study Material]\Degree\CBGS REV 2016 2017-2020 MUMBAI UNIVERSITY\TE\Sem 6\Labs\CSL602 System Software Lab 01\Experiment 3 - Lex>gcc lex.yy.c
I:\Academics\[Study Material]\Degree\CBGS REV 2016 2017-2020 MUMBAI UNIVERSITY\TE\Sem 6\Labs\CSL602 System Software Lab 01\Experiment 3 - Lex>a/a.out
This File contains ...
  3 lines
 11 words
 33 small letters
  1 capital letters
  6 digits
  7 special characters
In total 47 characters.
I:\Academics\[Study Material]\Degree\CBGS REV 2016 2017-2020 MUMBAI UNIVERSITY\TE\Sem 6\Labs\CSL602 System Software Lab 01\Experiment 3 - Lex>
```