**Aim:** Prepare a lex program for calculating total number of lines characters and word in to given input file.

**Software Requirements:** The program 'lex' can be found in the following packages: * flex * flex-old.

**Hardware Requirements:** Processor, Memory, Standard Input, Standard Output.

**Knowledge Required:**

To understatnd this program the reader must have hand on with lex.

**Description:**

Program should accept the file as an input and it should print the total number of lines, words and characters in to the given input file.

**Algorithm:**

*step 1.* when lex encounters a '\n' character in file increment line count variable as well as char count variable by one.

*step 2.* when lex encounters [^ \t\n]+

meaning that if its not a white space char, space char or '\n' char and any number of such occurances then

increment word count as well as char count by number of chars in word(yyleng).

step 3. for any other char (.) increment

**Input/Output:**

```
jazz@linuxmint ~/Desktop/ACT/Word line char count $ lex count.l
jazz@linuxmint ~/Desktop/ACT/Word line char count $ gcc lex.yy.c -ll
jazz@linuxmint ~/Desktop/ACT/Word line char count $ ./a.out < input.txt
There were 2 lines and 6 words and 28 characters.
jazz@linuxmint ~/Desktop/ACT/Word line char count $
```