



Faculty of Technology and Engineering Computer Science and Engineering

Practical

Academic Year	:	2025-26	Semester	:	6
Course code	:	CSE312	Course name	:	Design of language processing

Practical - 4

Aim:

- Objective 3:** Write a program to count number of characters, word and lines from the input file.
- Program (Code)**

```
%{
#include <stdio.h>
int char_count = 0;
int word_count = 0;
int line_count = 0;
%}

%%

\n      { char_count++; line_count++; }
[\t]+   { char_count += yyleng; }
[^ \t\n]+ { word_count++; char_count += yyleng; }

%%
```

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

```
int main(int argc, char *argv[]) {
```

```
if (argc < 2) {  
    printf("Usage: %s <input_file>\n", argv[0]);  
    return 1;  
}  
  
FILE *file = fopen(argv[1], "r");  
if (!file) {  
    printf("Error: Cannot open file %s\n", argv[1]);  
    return 1;  
}  
  
yyin = file;  
yylex();  
fclose(file);  
  
printf("Characters : %d\n", char_count);  
printf("Words : %d\n", word_count);  
printf("Line : %d\n", line_count);  
  
return 0;  
}
```

3. Output (Screen Shot)

```
debdoottmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 ¶main
> echo "The 45 is odd number." > test3_case1.txt
debdoottmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 ¶main
> ./objective3 test3_case1.txt
Characters : 22
Words : 5
Line : 1
debdoottmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 ¶main
> cat > test3_case2.txt << 'EOF'
I want to calculate a number. The number of characters, words and lines.

All know that \n is ending character of line.
45 + 89 =40
EOF
debdoottmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 ¶main
> ./objective3 test3_case2.txt
Characters : 132
Words : 26
Line : 4
```