R E P O R T

Assignment (Lab) #1

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1. Source Codes

```
1  /* Declarations and option settings */
2
3  %{
4          void addWord(char *);
5          void addNewLine(void);
6          void addChar(void);
7          int chars = 0;
8          int words = 0;
9          int lines = 0;
10 %}
11
12
13 /* pattern and actions insert */
14 %%
15
16 [a-zA-Z]+       addWord(yytext);
17 \n              addNewLine();
18 .               addChar();
19 %%
20
21
22 /* C code */
23 void addWord(char *text) {
24         words++;
25         chars += strlen(text);
26 }
27
28 void addNewLine(void){
29         chars++;
30         lines++;
31 }
32
33 void addChar(void){
34         chars++;
35 }
36
37 int main(void){
38         yylex();
39         printf("%8d%8d%8d\n", lines, words, chars);
40         return 0;
41 }
```

2. Compile output (Screen Dump)

```
root@DESKTOP-C4U914C:/etc/systemd/system/test# ls
myflex.txt
root@DESKTOP-C4U914C:/etc/systemd/system/test# flex myflex.txt
root@DESKTOP-C4U914C:/etc/systemd/system/test# ls
lex.yy.c  myflex.txt
root@DESKTOP-C4U914C:/etc/systemd/system/test# gcc lex.yy.c -lfl
root@DESKTOP-C4U914C:/etc/systemd/system/test# ls
a.out   lex.yy.c   myflex.txt
```

3. Execution output (Screen Dump)

```
root@DESKTOP-C4U914C:/etc/systemd/system/test# ./a.out
This is word counter
My name is wonseok Cho
408 408 408
hahahaha          3       10        64
```