Birla Institute of Technology, Mesra, Patna Campus



CD-Assignment

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Roll-Btech/15044/18

Sec-CSE 6th

#Assignment-8

20. Write a program in lex to count number of comments line from text file.

```
8{
#include<stdio.h>
#include<stdlib.h>
int a=0, c=0, d, e=0;
응}
응용
"/*" {if(e==0)e++;}
"*/" {if(e==1)e=0;c++;}
"//".* {if(e==0)a++;}
. {if(e==0)ECHO;}
void main(int argc, char *argv[]) {
    yyin=fopen("File2.txt", "r");
    yylex();
    printf("single line %d \nmultiline %d \n",a,c);
    d=a+c;
    printf("total %d \n",d);
```

```
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gokusan:~/Documents/Sem VI/LABS/CD LAB$ lex Q20A8.l

gokusan:~/Documents/Sem VI/LABS/CD LAB$ cc lex.yy.c -lfl

gokusan:~/Documents/Sem VI/LABS/CD LAB$ ./a.out

single line 2

multiline 1

total 3

gokusan:~/Documents/Sem VI/LABS/CD LAB$ []
```

21. Write a program in lex to count those words which will start from vowels.

```
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andromeda:-/Documents/Sem VI/LABS/CD LAB$ lex Q2A8.l
andromeda:-/Documents/Sem VI/LABS/CD LAB$ cc lex.yy.c -lfl
andromeda:-/Documents/Sem VI/LABS/CD LAB$ ./a.out File.txt

.

Number of words starting with vowel text file is 13
andromeda:-/Documents/Sem VI/LABS/CD LAB$ []
```

22. Write a program in lex to count numbers of operator in any text file.

```
% { #include<stdio.h>
int op = 0;
%}

%%

[+*-/<>=] {
op++;
}
(<=|>=|!=) {
op++;
}
.;

void main(int argc,char *argv[]) {
    yyin=fopen(argv[1],"r");
    yylex();
    printf("Number of operators in text file is %d\n", op);
}
int yywrap() {
    return 1; }
```

```
File Edit View Search Terminal Help
andromeda:-/Documents/Sem VI/LABS/CD LAB$ lex Q22A8.l
andromeda:-/Documents/Sem VI/LABS/CD LAB$ cc lex.yy.c -lfl
andromeda:-/Documents/Sem VI/LABS/CD LAB$ ./a.out File2.txt

Number of operators in text file is 8
andromeda:-/Documents/Sem VI/LABS/CD LAB$ []
```

23. Write a program in lex/c to count alternative word which will startfrom alphabet "k".

```
File Edit View Search Terminal Help
andromeda:-/Documents/Sem VI/LABS/CD LAB$ lex Q23A8.l
andromeda:-/Documents/Sem VI/LABS/CD LAB$ cc lex.yy.c -lfl
andromeda:-/Documents/Sem VI/LABS/CD LAB$ ./a.out File2.txt

Number of words starting with k in text file is 1
andromeda:-/Documents/Sem VI/LABS/CD LAB$ ./a.out File.txt

Number of words starting with k in text file is 4
andromeda:-/Documents/Sem VI/LABS/CD LAB$ ...
```