

```

%{
    #include<stdio.h>
    int keyword=0,operator=0,var=0,str=0,special=0;
}%
letter[A-Za-z]
digit[0-9]
%%

int|float|if|else {keyword++;printf("%s is a keyword\n",yytext);}

[+|-|*|=|/] {operator++ ;printf("%s is an operator\n",yytext);}

[a-z]([a-z]|[0-9])* {var++; printf("%s is a variable\n",yytext);}

\".*\" {str++; printf("%s is a string\n",yytext);}

[,|)|(|)|{|;} {special++ ;printf("%s is a special symbol\n",yytext);}

%%
int yywrap(){
int main()
{
    yyin=fopen("cprogram.txt","r");
    yylex();
    printf("No. of keyword:%d \n",keyword);
    printf("No. of operators:%d \n",operator);
    printf("No. of Variables:%d \n",var);
    printf("No. of Strings:%d \n",str);
    printf("No. of special symbols:%d \n",special);
}

/*cprogram.txt
#include<stdio.h>

int main()
{
    printf("hello world");
    int a= 10 ;
    int b=20 ;
    int c=a*b ;
}
*/

/*OUTPUT
paddi@jarvis:~/Desktop/LP/exp1$ lex expt1.l
paddi@jarvis:~/Desktop/LP/exp1$ gcc lex.yy.c
paddi@jarvis:~/Desktop/LP/exp1$ ./a.out
#include is a variable
<stdio is a variable
.h is a variable
>

int is a keyword
main is a variable
( is a special symbol
) is a special symbol

{ is a special symbol

    printf is a variable
( is a special symbol
"hello world" is a string
) is a special symbol
; is a special symbol

```

```

    int is a keyword
    a is a variable
    = is an operator
    10 ; is a special symbol

```

```

    int is a keyword
    b is a variable
    = is an operator
    20 ; is a special symbol

```

```

    int is a keyword
    c is a variable
    = is an operator
    a is a variable
    * is an operator
    b is a variable
    ; is a special symbol

```

```

} is a special symbol

```

```

No. of keyword:4
No. of operators:4
No. of Variables:10
No. of Strings:1
No. of special symbols:10
*/

```

```

//Code for prac 1.b

```

```

%{
    #include<stdio.h>
    int words=0,lines=0,s_letter=0,c_letter=0,
        digits=0,special_char=0,ques=0;
}%
%%
\n {lines++;}
[\t ''] words++;
[A-Z] c_letter++;
[a-z] s_letter++;
[0-9] digits++;
[@#$%&()?\.] special_char++;
[q|Q|ques|Ques][.][1-9] {ques++;}
([0-2][0-9]|[3][0-1])[/|.|-]([0][1-9]|[1][0-2])[/|.|-][0-9]{2} printf("Date: %
s",yytext);
%%
int main(void)
{
    yyin=fopen("paper.txt","r");
    yylex();
    printf("\n%d Lines",lines);
    printf("\n%d Words",words);
    printf("\n%d Capital Letters",c_letter);
    printf("\n%d Small Letters",s_letter);
    printf("\n%d Digits",digits);
    printf("\n%d Questions\n",ques);
}
int yywrap()
{
    return(1);
}

```

```

/* PAPER.txt
QUESTION PAPER
Subject:Computer Graphics
Semester:VII
Date:29/07/18
Maximum Marks:30

```





Hola amigos!! paddi

here.....

we have to recognise following tags

- 1)  
paragraph
- 2)  
heading
- 3)  
ordered list
- 4)  
unordered list

we dont have to recognise following tags

- bold
- Italics

hello

\*/