```
%{
    #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");
    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][.][\overline{1}-9] {ques++;}
 ([0-2][0-9]|[3][0-1])[/|.|-]([0][1-9]|[1][0-2])[/|.|-][0-9]\{2\} \ \ printf("Date: \% for example of the print of the print
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
```

```
Time allowed: 1.5 hours
Instructions:
i) All questions are compulsory.
ii) Question 1 consists of 10 questions of 1 mark each.
iii) Question 2 consists of 5 questions of 2 marks each.
iv) Question 3 consists of 5 questions of 4 marks each.
v) Answer the questions after carefully reading the text.
Ques.1)Write a C program for hello world.
Q.2)what is a SLR parser?
ques.3)Write a C program for bye world.
q.4)write the bresenhams line drawing algorithm. what are its advantages?
/*OUTPUT
paddi@jarvis:~/Desktop/LP/exp1$ lex pract1b.l
paddi@jarvis:~/Desktop/LP/exp1$ gcc lex.yy.c
paddi@jarvis:~/Desktop/LP/exp1$ ./a.out
Date: 29/07/18
19 Lines
79 Words
38 Capital Letters
378 Small Letters
14 Digits
4 Questions
//Code for prac 1.3
%{
        void heading(char*);
        void paragraph(char*);
        void olist(char*);
        void ord_list(char*);
        void space(char*);
        int olist_flag=0;
        int li=0 ;
%}
"<h>" | "</h>" {space(" ");}
"<!DOCTYPE html>"|"<br>" {}
"<html>"|"</html>"|"<body>"|"<title>"|"</title>"|"</head>"|"
              {space(" ");}
""|"" {paragraph("");}
"" {olist_flag=1;li=0;olist(" ");}
"" {olist_flag=0;li=0;}
"" {if(olist_flag==1){li++;ord_list("");}if(olist_flag==0){olist("-");};}
"" {}
"" {olist(" ");}
"" {olist_flag=0;li=0;}
int main()
yyin =fopen("site.html","r");
 yyout=fopen("output.txt","w");
 yylex();
  fprintf(yyout, "%s", "hello");
 return 0;
}
void space(char* s)
{
        fprintf(yyout, "\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\s", s);
```

```
}
void heading(char* s)
    fprintf(yyout,"\t\t\t\t\t\t\t\t\t\t\t\t\t\t\s", s);
}
void paragraph(char* s)
   fprintf(yyout,"\t\t\t %s", s);
void olist(char* s)
   fprintf(yyout, "%s", s);
void ord_list(char* s)
   fprintf(yyout,"%d)",li);
//fprintf(yyout,"%s", s);
int yywrap()
{}
/*Site.html
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<h>this is paddi</h><br>
Hola amigos!! paddi here.....
we have to recognise following tags
   <
   paragraph
   <
   heading
   <
   ordered list
   <
   unordered list
   dont have to recognise following tags
   bold
   Italics
</body>
</html>
/*OUTPUT
Title of the
document
this is
paddi
```

```
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
*/
```