Program 5

Design a LEX Code to count and print the number of total characters, words, white spaces in given 'Input.txt' file.

```
%{
int lines=0, words=0,spaces=0,total=0;
%}
%%
\n { lines++; words++; total++;}
[\t ' '] {words++;total++;}
[" "] {spaces++;total++;}
%%

yywrap(){}
main(int argc, char *argv[])
{
extern FILE *yyin;
        yyin = fopen("Input.txt","r");
        yylex();
        printf("LINES : %d WORDS : %d  SPACES %d  TOTAL:  %d",lines,words,spaces,total);
        return 0;

}
```

INPUT

This is the worst crockery around this town.

OUTPUT

LINES : 1 WORDS : 8 SPACES 7 TOTAL: 8

Program 6

Design a LEX Code to remove the extra spaces and empty line and write it into "Store.txt" file.

```
%{
%}

space [ \t]
emptyline \n
%%
{space}+ printf(" ");
{emptyline}+ printf("\n");
. {printf("%s\n",yytext);}
%%

yywrap(){}
main(int argc, char *argv[])
{
extern FILE *yyout;
        yyin = fopen("Store.txt","w");
        yylex();
        return 0;
}
```

INPUT

This is the worst crockery around this town.

OUTPUT

This is the worst crockery around this town.

Program 7

Design a LEX Code to remove the comments from any C-Program given at run-time and store into "comment.txt" file.

```
%{
%}


%%
\/\/.* ;
\/\*(.*\n)*.*\*\/ ;
%%
yywrap(){}


main(int argc, char *argv[])
{
extern FILE *yyout;
        yyout = fopen("comment.txt","w");
        yylex();
        return 0;
}
```

INPUT

```
int p=1,d=0,r=4;
float m=0.0, n=200.0;       // hello
while (p <= 3)
   { if(d==0)     //this is wrong
        { m= m+n*r+4.5; d++;  }
      else
```

{ r++; m=m+r+1000.0; } // haha

p++; }

OUTPUT

int p=1,d=0,r=4;

float m=0.0, n=200.0;

while (p <= 3)

{ if(d==0)

{ m= m+n*r+4.5; d++; }

else

{ r++; m=m+r+1000.0; }

p++; }

Program 8

Design a LEX Code to extract all html tags in the given HTML file at run time and store into Text file "Tags.txt" given at run time

```
%{
%}
%%
"<"[^>]*> {printf("%s\n",yytext);}
. ;
%%

yywrap(){}

main(int argc, char *argv[])
{
extern FILE *yyin;
```

```
        yyin = fopen("Tags.txt","r");
        yylex();
        return 0;
}
```

INPUT

<html> hello </html>

<html> whatever </html>

ZXXZ

zxZX

zxzX

OUTPUT

<html>

</html>

<html>

</html>