```
//Implementation of Lexical Analyzer using Lex tool
%{
int COMMENT=0;
%}
identifier [a-zA-Z][a-zA-Z0-9]*
#.* {printf("\n%s is a preprocessor directive",yytext);}
int |
float |
char |
double |
while |
for |
struct
typedef
do |
if |
break |
continue |
void |
switch |
return |
else
goto {printf(" kwd");}
"/*" {COMMENT=1;}{printf("comment");}
\+ {if(!COMMENT)printf(" op-plus");}
\- {if(!COMMENT)printf(" op-sub");}
\* {if(!COMMENT)printf(" op-mul");}
\/ {if(!COMMENT)printf(" op-div");}
{identifier}\( {if(!COMMENT)printf("fun");}
\{ {if(!COMMENT)printf("block begins");}
\} {if(!COMMENT)printf("block ends");}
{identifier}(\[[0-9]*\])? {if(!COMMENT) printf(" id");}
\".*\" {if(!COMMENT)printf("str");}
[0-9]+ {if(!COMMENT) printf("num");}
\)(\:)? {if(!COMMENT)printf("\n\t");ECHO;printf("\n");}
\( ECH0;
= {if(!COMMENT)printf(" op-equ");}
\<= |
\>= |
\< |
\> {if(!COMMENT) printf("rel-op");}
%%
int main(int argc, char **argv)
FILE *file:
file=fopen("input.c","r");
if(!file)
printf("could not open the file");
exit(0);
yyin=file;
yylex();
printf("\n");
return(0);
int yywrap()
```

```
return(1);
}
```