EXP NO: 3 DATE:28/2/25

DEVELOP A LEXICAL ANALYSER TO RECOGNIZE A FEW PATTERNS IN C.

(EX.IDENTIFIERS, CONSTANTS, COMMENTS, AND OPERATORS, ETC.) USING LEX TOOL.

```
#include<stdio.h>
#include<string.h>
왕}
용용
"int"|"float"|"if"|"else" {printf("Keyword: %s\n",yytext);}
[a-zA-Z ][a-zA-z0-9 ]* {printf("Identifier: %s\n",yytext);}
[0-9]+\.[0-9]+ {printf("Floating Number: %s\n",yytext);}
[0-9]+ {printf("Integer Number: %s\n",yytext);}
"=="|"<="|">="|">"|"<"|"!="|"+"|"-"|"/"|"/"|"*" {printf("Operators: %s\n",yytext);}
[()\{\}|;.,] \quad \{printf("Special Symbols:\$s\n",yytext);\}
"//".* {printf("single line Comments:%s\n",yytext);}
"/*".*"*/" {printf("multi line Comments: %s\n",yytext);}
용용
int yywrap(void){}
int main(){
yylex();
return 0;
```

```
[cdlab68@localhost 220701068]$ vi tokens.1
[cdlab68@localhost 220701068]$ lex tokens.1
[cdlab68@localhost 220701068]$ gcc lex.yy.c
[cdlab68@localhost 220701068]$ ./a.out
hi
Identifier: hi

23
Integer Number: 23

|
Special Symbols:|
float
Keyword: float
```