

```

1  %{
2  #include <stdio.h>
3  %}
4  %option noyywrap
5  %%
6
7  [ \t]+ ;
8  [\n] {yylineno++;}
9  auto|case|char|const|continue|default|do|double|else|enum|extern|float|for|goto|if|
int|long|register|return|short|signed|sizeof|static|struct|switch|typedef|union|
unsigned|void|volatile|while {printf("%s\t\tKeyword\t\t\t%d\n",yytext, yylineno);}
10 [+/*<=>^] {printf("%s\t\tOperator\t\t\t%d\n", yytext, yylineno);}
11 [0-9]+ {printf("%s\t\tNumber\t\t\t%d\n", yytext, yylineno);}
12 main|stdio|h|printf {printf("%s\t\tIdentifier\t\t\t%d\n", yytext, yylineno);}
13 [a-zA-Z]+ {printf("%s\t\tString\t\t\t%d\n", yytext, yylineno);}
14 [.,;:?!|&~'\"] {printf("%s\t\tPunctuation\t\t\t%d\n", yytext, yylineno);}
15 [\(\{] {printf("%s\t\tOpening Brackets\t\t\t%d\n", yytext, yylineno);}
16 [\)\}\\\] {printf("%s\t\tClosing Brackets\t\t\t%d\n", yytext, yylineno);}
17 [.#] {printf("%s\t\tSpecial Symbols\t\t\t%d\n", yytext, yylineno);}
18 . {printf("%s\t\tInvalid\t\t\t%d\n", yytext, yylineno);}
19
20 %%
21
22 int main() {
23     yyin = fopen("pgm2.txt", "r");
24     printf("Lexeme\t\tToken\t\tLine No.\n");
25     printf("-----\n");
26     yylex();
27     fclose(yyin);
28     return 0;
29 }
30

```