

```

%{
#include <stdio.h>

%}


%option noyywrap


/* Patterns */

OPERATOR  (\+|\-|\*|\/|=|==|<|>|<=|>=|!=|&&|\||%)
IDENTIFIER [A-Za-z_][A-Za-z0-9_]*
CONSTANT  [0-9]+(\.[0-9]+)?
COMMENT    (\V\[^\n]*)(\^*([^\*]|\*+[\^*/])*\^*+\/)

%%


{OPERATOR}  { printf("%s is an operator\n", yytext); }
{IDENTIFIER} { printf("%s is an identifier\n", yytext); }
{CONSTANT}  { printf("%s is a constant\n", yytext); }
{COMMENT}   { printf("%s is a comment\n", yytext); }

[\t\r\n]+   { /* ignore whitespace */ }

.           { printf("%s is not a recognized pattern\n", yytext); }

%%


int main(void)
{
    printf("Enter the expression:\n");

```

```
yylex();  
return 0;  
}
```