

**Code for LEX:**

| DIGIT [0-9]+\.?|[0-9]\*\.[0-9]+  %%  [ ] {DIGIT} {yylval=atof(yytext);return NUM;} \n|. {return yytext[0];} |
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**Code for YACC:**

| %{ #include <stdio.h> #include <stdlib.h> #define YYSTYPE double int yylex(void); void yyerror(char\*); %}  %token NUM %left '+' '-' %left '\*' '/' %right UMINUS  %%  S:  S E '\n' { printf("Answer: %g\n", $2); printf("Enter expression:\n"); }  | S '\n'  |  ;  E:  E '+' E { $$ = $1 + $3; }  | E '-' E { $$ = $1 - $3; }  | E '\*' E { $$ = $1 \* $3; }  | E '/' E { $$ = $1 / $3; }  | '(' E ')' { $$ = $2; }  | '-' E %prec UMINUS { $$ = -$2; }  | NUM  ;  %%  #include "lex.yy.c" int main(){  printf("Enter the expression: ");  yyparse(); } void yyerror(char\* errorText){  printf("%s\n",errorText); } |
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**Output:**



