%{

#include<stdio.h>

#include<stdlib.h>

%}

%token INT

%left '+' '-'

%left '\*' '/'

%left '(' ')'

%%

/\* rules \*/

ArithmeticExpn: E {printf("The expression evaluates to %d\n", $$);}

E: E '+' E {$$=$1+$3;}

| E '-' E {$$=$1-$3;}

| E '\*' E {$$=$1\*$3;}

| E '/' E {$$=$1/$3;}

| '('E')' {$$=$2;}

| INT {$$=$1;}

%%

int main()

{

printf("\nEnter expression (with operators +,-,\*,/ and parenthesis): \n");

yyparse();

return 0;

}

int yyerror()

{

printf("\n Entered expression is invalid!\n");

return 0;

}