Exp3.y

%{

#include<stdio.h>

extern int yylex();

extern void yyerror(const char \*s);

%}

%token NUMBER

%left '+' '-'

%left '\*' '/' '%'

%left '(' ')'

%%

ArithmeticExpression:

E {

printf("Result %d",$$);

return 0;};

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

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

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

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

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

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

|NUMBER {$$=$1;};

%%

int main(){

printf("Enter expression:");

return yyparse();

}

void yyerror(const char \*s) {

fprintf(stderr, "Error: %s\n", s);

}

Exp3lex.l

%{

#include "Exp3.tab.h" // Include the header generated by Yacc/Bison

%}

%%

[0-9]+ { yylval = atoi(yytext); return NUMBER; } // Number token

[\+\-\\*/%] { return yytext[0]; } // Operator tokens

[ \t]+ ; // Skip whitespace

\n {return '\n';}

. { return yytext[0]; } // Return any other character

%%

int yywrap(){return 1;}

Output:

