PROGRAM:

Prac5.l:

%{

#include"y.tab.h"

extern yylval;

%}

/\* defined section \*/

%%

[0-9]+ {yylval=atoi(yytext); return NUMBER;} //this is send to the yacc code as token INTEGER [a-zA-Z]+ {return ID;} //this is send to the yacc code as token ID [\t]+ ;

\n {return 0;}

. {return yytext[0];}

%%

Prac5.y:

%{

#include<stdio.h>

%}

//definition section

%token NUMBER ID // token from lex file

%left '+' '-' // left associative

%left '\*' '/'

%%

expr: expr '+' expr // grammer production rule

|expr '-' expr

|expr '\*' expr

|expr '/' expr

|expr '=' expr

|'-'NUMBER

|'-'ID

|'('expr')'

|NUMBER

|ID

|NUMBER';'

;

%%

//main function

main()

{

printf("Enter the expression\n");

yyparse();

printf("\nExpression is valid\n");

exit(0);

}

//if error occured

int yyerror(char \*s)

{

printf("\nExpression is invalid\n");

exit(0);

}

OUTPUT:

