**CD LAB ASSIGNMENT WEEK-11**

*Submitted by :*

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**Modify the program for the following Grammar.**

**E->E+T**

**E-->E-T  
E-->T  
T-->T\*F  
T-->T/F  
F-->digit**

***Lex code:***

%{

#include "parser.tab.h"

%}

%%

[0-9] { yylval = atoi(yytext); return DIGIT; }

[ \t] ;

\n { return 0; }

[-+] { return yytext[0]; }

[\*\/] { return yytext[0]; }

. { return yytext[0]; }

%%

int yywrap() {

return 0;

}

***YACC Code:***

%{

#include <stdio.h>

%}

%token DIGIT

%%

S: E { printf("The result is = %d\n", $1); }

;

E: E '+' T { $$ = $1 + $3; }

| E '-' T { $$ = $1 - $3; }

| T { $$ = $1; }

;

T: T '\*' F { $$ = $1 \* $3; }

| T '/' F { $$ = $1 / $3; }

| F { $$ = $1; }

;

F: '(' E ')' { $$ = $2; }

| DIGIT { $$ = $1; }

;

%%

int main() {

yyparse();

return 0;

}

void yyerror(const char \*s) {

printf("%s\n", s);

}