ABHINAND K PRASAD

S7 CSA

ROLL NO: 4

%{

#include<stdio.h>

int flag = 0;

int yylex(void);

void yyerror(const char \*s);

%}

%token NUMBER

%left '+' '-'

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

%left '(' ')'

%%

ArithmeticExpression: E { printf("\nResult = %d\n", $$); 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; };

%%

void main() {

printf("\nEnter an Arithmetic Expression: ");

yyparse();

}

void yyerror(const char \*s) {

printf("\nEntered arithmetic expression is Invalid: %s\n", s);

flag = 1;

}

%{

#include<stdio.h>

#include "y.tab.h"

extern int yylval;

%}

%%

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

[\t] ;

[\n] return 0;

. return yytext[0];

%%

int yywrap() {

return 1;

}

**OUTPUT**

A screenshot of a computer program

Description automatically generated