**EXPERIMENT NO:3.3**

**PROGRAM**

**exp33.l**

%{

#include "y.tab.h"

extern int yylval;

%}

%%

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

\n {return NL;}

. {return yytext[0]; }

%%

|  |
| --- |
| **exp33.y** |

%{

#include<stdio.h>

#include<stdlib.h>

int yylex();

void yyerror(char \*msg);

%}

%token NUMBER ID NL

%left '+' '-'

%left '\*' '/'

%%

stmt : exp NL { printf("Value = %d\n", $1); exit(0); };

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

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

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

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

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

| ID { $$ = $1; }

| NUMBER { $$ = $1; };

%%

void yyerror(char \*msg) {

printf("Invalid Expression\n");

}

int main() {

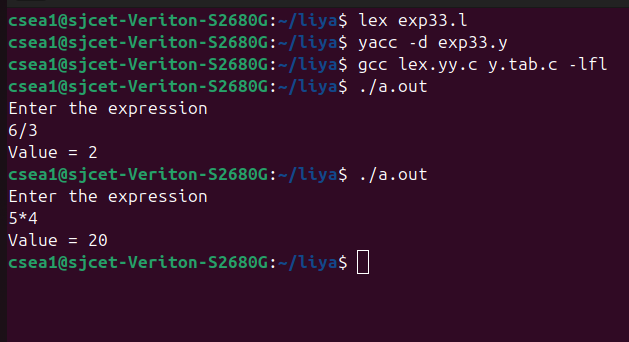
printf("Enter the expression\n");

yyparse();

return 0;

}

**OUTPUT**

****