Practical-8

Aim:- Write a program to convert infix to postfix using lex and YACC.

Code:-

1) Inpost.l

```
%{
#include"y.ta
b.h"extern int
yylval;
%}
%%
[0-9]+ {yylval=atoi(yytext); return NUM;}
\n      return 0;
.       return *yytext;
%%

 int
    yywra
    p(){
    return
    1;
}
```

2) Inpost.y

```
%{
#include<stdio.h>
%}
%token NUM
%left '+' '-'
%left '*' '/'
%right NEGATIVE
%%
S: E {printf("\n");}
    ;
E: E '+' E {printf("+");}
    | E '*' E {printf("*");}
    |  E '-' E {printf("-");}
    |  E '/' E {printf("/");}
    | '(' E ')'
    | '-' E %prec NEGATIVE {printf("-");}
    |  NUM     {printf("%d", yylval);}
    ;
%%
```

```
int main(){

    yyparse();
}


int yyerror (char *msg) {
    return printf ("error YACC: %s\n", msg);
}
```

OUTPUT:

```
~$ ~$ vi inpost.l
~$ vi inpost.y
~$ lex inpost.l
~$ yacc -d inpost.y
~$ cc lex.yy.c y.tab.c -ll
~$ ./a.out
2+6*2-5/3
262*+53/-
~$
```