Practical-8

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

❖ CODE :

1. Pr8_CD.l

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

int yywrap(){
   return 1;
}
```

2. Pr8_CD.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