/* C4: Use YACC to convert: Infix expression to Postfix expression. */

File: C4.y

```
응 {
   /* Definition section */
   #include <ctype.h>
   #include<stdio.h>
   #include<stdlib.h>
응 }
%token digit
/* Rule Section */
/*All these grammar rules are established for operator precedence and
associativity*/
/*S prints new line after evaluating E*/
S: E {printf("\n\n");}
/*E can be evaluated to E+T or E-T or just T*/
E: E '+' T { printf ("+");}
| E '-' T { printf ("-");}
/*T can be evaluted to T*P or T/P or just P*/
T: T '*' P { printf("*");}
| T '/' P { printf("/");}
   Ρ
/*P can be evaluated to F^P or just F*/
P: F '^' P { printf ("^");}
| F
/*F can evaluated to E or a number*/
F: '(' E ')'
 | digit {printf("%d", $1);}
응응
//driver code
int main()
{
    printf("Enter infix expression: ");
    yyparse(); //to parse the input
yyerror()
  printf("NITW Error");
```

File: C4.l

```
% {
    #include "y.tab.h"
    extern int yylval;
% }
% 
/*If the token is a Integer number, return it.*/
[0-9]+ {yylval=atoi(yytext); return digit;}
/*If the token is a space or tab, ignore it.*/
[\t];
/*If the token is a new line, return 0*/
[\n] return 0;
/*If the token didn't match with any of the above, return the first character*/
    return yytext[0];
% *
```

