/* C1: Write a program to design LALR parsing using YACC */

File: C1.y

```
응 {
   /* Definition section */
   #include <ctype.h>
   #include<stdio.h>
   #include<stdlib.h>
응 }
%token digit
/* Rule Section */
응응
/*After Evaluating the expression E,S prints Reached*/
S: E {printf("Reached\n\n");}
/*The expression parser uses three different symbols T,F and P, to
set the
 precedence and associativity of operators*,
E: E '+'
    E '-'
    T '*'
T:
    T '/'
           Ρ
    Ρ
P:
    F '^'
    F
F: '(' E ')'
  | digit
응응
//driver code
int main()
{
    printf("Enter infix expression: ");
    yyparse();
yyerror()
   printf("NITW Error");
```

File: C1.1

```
% {
    #include "y.tab.h"
    extern int yylval;
% }
% 
//If the token is an Integer number, then return it's value.
[0-9]+ {yylval=atoi(yytext); return digit;}
//If the token is space or tab, then just ignore it.
[\t];
//If the token is new line, return 0.
[\n] return 0;
//For any other token, return the first character read since the last match.
    return yytext[0];
%
```

