WEEK-4: Design LALR bottom up parser for a given language.

```
Week4.l
응 {
#include<stdio.h>
#include "y.tab.h"
응응
[0-9]+ {yylval.dval=atof(yytext);
return DIGIT;
\n|. return yytext[0];
Week4.y
%{
/*This YACC specification file generates the LALR parser for the program
considered in experiment 4.*/
#include<stdio.h>
%}
%union
double dval;
}
%token <dval> DIGIT
%type <dval> expr
%type <dval> term
%type <dval> factor
%%
line: expr '\n' {
printf("%g\n",$1);
}
expr: expr '+' term {$$=$1 + $3;}
| term
term: term '*' factor {$$=$1 * $3;}
```

```
| factor
factor: '(' expr ')' {$$=$2;}
   | DIGIT
 %%
int main()
{
yyparse();
}
yyerror(char *s)
{
printf("%s",s);
 }
                                                                                                                                                                                                                                                                                                                                                                                    vnrvjiet@vnrvjiet-HP-ProDesk-400-G7-Microtower-PC: ~/Desktop/kk
                                                     vnrvjtet@vnrvjtet-HP-ProDesk-400-G7-Microtower-PC:-/Desktop/kk$ lex week4.1
vnrvjtet@vnrvjtet-HP-ProDesk-400-G7-Microtower-PC:-/Desktop/kk$ lex week4.1
vnrvjtet@vnrvjtet-HP-ProDesk-400-G7-Microtower-PC:-/Desktop/kk$ yacc -d week4.y
vnrvjtet@vnrvjtet-HP-ProDesk-400-G7-Microtower-PC:-/Desktop/kk$ cc lex.yy.c y.tab.c -ll -lm
week4.y: In function 'math':
week4.y: 31:1: warning: implicit declaration of function 'yyparse' [-Wimplicit-function-declaration]
31 | yyparse();
week4.y: At top level:
week4.y: At top level:
week4.y: At top level:
week4.y: 33:1: warning: return type defaults to 'int' [-Wimplicit-int]
33 | yyerror(char *s)
y.tab.c: In function 'yyparse':
y
```

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