```
Exper4.l:
%{
#include<stdio.h>
#include "y.tab.h"
%}
L [A-Za-z]
D [0-9]
id \{L\}(\{L\}|\{D\})^*
%%
"if" {return IF;}
"else" {return ELSE;}
"for" {return FOR;}
"do" {return DO;}
"while" {return WHILE;}
"++" {return INC;}
"--" {return DEC;}
"||" {return OR;}
"&&" {return AND;}
"!" {return NOT;}
"switch" {return SWITCH;}
"case" {return CASE;}
"break" {return BREAK;}
"default" {return DEFAULT;}
[0-9]+(\.[0-9]+)? {return NUM;}
{id} {return id;}
"<"
|"<="|">="|">="|"!=" {return relop;}
[-/;=+*,\(\)\{}:] {return yytext[0];}
[]{}
n \{
%%
int yywrap()
{
```

```
return 1;
}
Exper4.y
%{
#include <stdio.h>
%}
%token id NUM OR AND NOT relop TRUE FALSE INC DEC IF ELSE DO WHILE uminu
s FOR SWITCH CASE BREAK DEFAULT
%right '='
%left '+' '-'
%left '*' '/'
%right '^'
%nonassoc uminus
%left OR
%left AND
%nonassoc NOT
%%
S1: S1 S
 \mid S
S : AS ';' {printf("Assignment statement accepted \n");}
 IFS
        {printf("If statement is accepted \n");}
 IFES
         {printf("If else statement is accepted\n");}
 WS
         {printf("While statement is accepted\n");}
 DWS
          {printf("Do while statement is accepted\n");}
 FORS
          {printf("For statement is accepted\n");}
 |SS
            {printf("Switch statement is accepted");}
SS: SWITCH'('E')"{' CV '}'
CV: CASE E ':' S1 BREAK ';'
```

```
| CASE E ':' S1 BREAK ';' CV
 | CASE E ':' S1 BREAK ';' DEFAULT ':' S1
AS: id '=' E
E : E'+'E
 |E'-'E
 |E'*'E
 |E'/'E
 |E'^'E
'-' E %prec uminus
 |id
 |NUM
IFS: IF'('BE')"{'S1'}'
BE: BE OR BE
 | BE AND BE
 | NOT BE
 |id relop id
 TRUE
 |FALSE
IFES: IF'('BE')"{'S1'}'ELSE'{'S1'}'
WS:WHILE\ '('BE')''\{'S1'\}'
DWS: DO'{'S1'}'WHILE'('BE')";'
 ;
FORS: FOR'('IS';'BE';'MS')"{'S1'}'
 ;
IS: AS
 | IS ',' AS
```

```
,
MS: IS
| id INC
| INC id
| id DEC
| DEC id
;
%%
void main()
{
yyparse();
}
int yyerror(char *msg)
{
printf("%s\n",msg);
}
```

