Assign4.L:

%{

#include<stdio.h>

#include<string.h>

#include "y.tab.h"

%}

%%

int|char|float|boolean|double|string {return dt;}

public|private|protected {return as;}

static {return kw;}

[A-Za-z\_][A-Za-z0-9]\* {strcpy(yylval.v,yytext);return id;}

"/t" {;}

" " {;}

"\n" {;}

. {return yytext[0];}

Assign4.y:

%{

#include<stdio.h>

%}

%token dt kw as id

%union

{

char v[20];

}

%%

X:Y dt Z ';' {printf("correct syntax");}

Y:as kw|as|kw|;

Z:Z','id|id;

%%

main()

{

yyparse();

}

yyerror()

{

printf("incorrect syntax");

}

Output:

[root@localhost student]# yacc -d assign4.y

[root@localhost student]# lex assign4.l

[root@localhost student]# gcc lex.yy.c y.tab.c -ll

[root@localhost student]# ./a.out

public int a,b;

correct syntax

[root@localhost student]# ./a.out

int ;

incorrect syntax