## 2CEIT701: COMPILER DESIGN

AIM - Write a Lex program to validate the variable declaration statement using Lex and YACC.

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Class: CEIT-A Batch: AB4



Department of Computer Engineering (CEIT-A)

## **Practical-6**

AIM - Write a Lex program to validate the variable declaration statement using Lex and YACC.

**CODE:** 

```
LEX FILE
% {
#include "y.tab.h"
%} %%
int|float|char {return (DT); } ";"
{return (SC); }
"," {return (COMMA); }
[a-zA-Z_][a-zA-Z0-9]* {return (ID); }
"\n" {return (NL); }
%%
YACC FILE
%{
%}
%token DT SC NL COMMA ID
%name parse
%%
start:S { printf("Valid Declaration\n"); return 0; }
S:DT VL SC NL
VL:VL COMMA ID
 ID
%%
int main(){
yyparse();
return 0; }
yyerror(char *s){ printf("error
: %s ",s);
```

## **OUTPUT**

```
19012531016@telnetserver:~$ ./a.out
int A;
Valid Declaration
19012531016@telnetserver:~$ ./a.out
floaut la;
error : parse error 19012531016@telnetserver:~$ ./a.out
float a;
Valid Declaration
19012531016@telnetserver:~$
```