

```
%{
```

```
    #include <stdio.h>
```

```
    #include "y.tab.h"
```

```
%}
```

```
letter [A-Za-z]
```

```
digit [0-9]
```

```
keyword int|float|char
```

```
identifier {letter}{(letter){digit})*
```

```
%%
```

```
{keyword} return TYPE;
```

```
"," return COMMA;
```

```
;" return SC;
```

```
{identifier} return ID;
```

```
"\n" return NL;
```

```
%%
```

```
%{
```

```
    #include <stdlib.h>
```

```
    #include <stdio.h>
```

```
    int yylex();
```

```
    int yyerror();
```

```
%}
```

```
%token TYPE COMMA SC ID NL
```

```
%%
```

```
start : TYPE varlist SC NL {printf("Input is Syntactically correct\n"); exit(0);} ;
```

```
varlist : varlist COMMA ID
```

```
        | ID
```

```
        ;
```

```
%%
```

```
int main()
```

```
{
```

```
    yyparse();
```

```
}
```

```
int yyerror()
```

```
{  
    printf("Invalid Statement\n");  
}
```

```
int yywrap()  
{  
    return 1;  
}
```

```
student@student-Veriton-M200-H61:~$ yacc -d rn16.y
```

```
student@student-Veriton-M200-H61:~$ lex rn16.l
```

```
student@student-Veriton-M200-H61:~$ cc y.tab.c lex.yy.c
```

```
student@student-Veriton-M200-H61:~$ ./a.out
```

```
int a,b,c;
```

Input is Syntactically correct