

```

PROGRAM.l

%{

#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;

%%

//PROGRAM.y

%{

#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 correc
```