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**Class:** CS7A

## PROGRAM CODE

**program\_2.lex:**

```
%{  
#include <stdlib.h>  
#include "y.tab.h"  
#include <string.h>  
%}  
%option noyywrap  
%%  
[a-zA-Z][a-zA-Z0-9]* { yylval.str = strdup(yytext); return IDENTIFIER; }  
\n { return '\n'; }  
.* { yylval.str = strdup(yytext); return INVALID; }  
%%
```

**program\_2.y:**

```
%{  
#include <stdio.h>  
#define YYSTYPE char*  
%}  
%union {  
    char* str;  
}  
%token IDENTIFIER  
%token INVALID  
%%  
program: line  
    | line program;  
  
line: IDENTIFIER "\n" {printf("Valid\n");}  
    | INVALID "\n" {printf("Invalid\n");}
```

```
%%  
  
void yyerror(char *s){  
    printf("Error: %s\n",s);  
}  
  
int main() {  
    yyparse();  
    return 0;  
}  
  
int yywrap() {  
    return 1;  
}
```

## OUTPUT:

abcd123

Valid

456gef

Invalid

a\_b\_1

Invalid

a123@

Invalid

pqr987

Valid