

LEX PROGRAM

```
% {
#include "4b.tab.h"
% }
%%
[a-zA-Z] {return LETTER;}
[0-9] {return DIGIT;}
[_] {return UND;}
[\n] {return NL;}
. {return yytext[0];}
%%
```

YACC PROGRAM\

```
% {
#include <stdio.h>
#include <stdlib.h>
% }
%token DIGIT LETTER UND NL
%%
stmt: variable NL {printf("valid identifiers\n"); exit(0);}
;
variable: LETTER alphanumeric
;
alphanumeric: LETTER alphanumeric | DIGIT alphanumeric | UND alphanumeric
              | LETTER | DIGIT | UND
;
%%
int yyerror(char *msg)
{
    printf("Invalid variable\n");
    exit(0);
}
main()
{
    printf("enter the variable: \n");
    yyparse();
}
int yywrap()
{
    return 1;
}
```