

6b) Program to recognize a valid variable, which starts with a letter, followed by any number of letters or digits

6b.i

```
%{  
  
#include "y.tab.h"  
  
%}  
  
%%  
  
[a-z]    return L;  
  
[0-9]    return D;  
  
\n {return NL;}  
  
%%  
  
int yywrap() { }
```

6b.y

```
%{  
  
#include<stdio.h>  
  
%}  
  
  
%token L D NL  
  
  
%%  
  
var: L    E NL {printf("Valid Variable\n");return 0;}  
  
E: E L  
  
| E D  
  
|      ;  
  
%%  
  
int yyerror()  
  
{  
  
    printf("\n Invalid Variable\n");
```

```

        return 0;
    }

    int main()
    {
        printf("\nEnter a variable\n");

        yyparse();
    }

```

Commands For Execution

lex 6b.l

yacc 6b.y

yacc -y -d 6b.y

gcc lex.yy.c y.tab.c -o 6b.exe

6b.exe

Output

```

C:\windows\system32\cmd.exe

C:\Users\Prameetha\Desktop\SS\ss>6b.exe

Enter a variable
sum
Valid Variable

C:\Users\Prameetha\Desktop\SS\ss>6b.exe

Enter a variable
7sum
Invalid Variable

C:\Users\Prameetha\Desktop\SS\ss>6b.exe

Enter a variable
s77
Valid Variable

C:\Users\Prameetha\Desktop\SS\ss>6b.exe

Enter a variable
var1
Valid Variable

```