Write a yacc program to recognize a valid variable which starts with letter followed by a digit. The letter can be both uppercase and lowercase.

**Pg.l**

%{

#include "y.tab.h"

%}

%%

[a-z] return L;

[0-9] return D;

\n {return NL;}

%%

int yywrap() { }

**pg.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;

}

Write a Yacc Program to evaluate an arithmetic expression involving operators +, -, \* and /.

6a.l

%{

#include "y.tab.h"

%}

%%

[0-9]+(\.[0-9]+)? {return NUM;}

[a-zA-Z][\_a-zA-Z0-9]\* {return ID;}

[\t] ;

\n {return 0;}

. {return yytext[0];}

%%

int yywrap() { }

6a.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");

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return 0;

}

int main()

{

printf("\nEnter a variable\n");

yyparse();

}