PROGRAM:

validexp.l:

```
%{
#include<stdio.h>
#include "y.tab.h"
%}

%%
[a-zA-Z]+ return VARIABLE;
[0-9]+ return NUMBER;
[\t] ;
[\n] return 0;
. return yytext[0];
%%
int yywrap()
{
return 1;
}
```

validexp.y:

```
%{
   #include<stdio.h>
%}
%token NUMBER
%token VARIABLE

%left '+' '-'
%left '*' '/' '%'
%left '(' ')'

%%

S: VARIABLE'='E {
     printf("\nEntered arithmetic expression is Valid\n\n");
     return 0;
    }
E:E'+'E
 |E'-'E
 |E'*'E
 |E'/'E
 |E'%'E
 |'('E')'
 | NUMBER
 | VARIABLE
;
```

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%%

void main()
{
  printf("\nEnter Any Arithmetic Expression which can have operations Addition,
Subtraction, Multiplication, Divison, Modulus and Round brackets:\n");
  yyparse();
}

void yyerror()
{
  printf("\nEntered arithmetic expression is Invalid\n\n");

}

OUTPUT:

```
root@localhost-live 210701287# vi ex5.c
[root@localhost-live 210701287]# vi ex5.1
[root@localhost-live 210701287]# vi ex5.y
[root@localhost-live 210701287]# lex ex5.1
[root@localhost-Live 210701287]# yacc -d ex5-y
[root@localhost-live 210701287]# cc lex-yy. y. tab.c
[root@localhost-Live 210701287]# -/a.out

Enter Any Arithmetic Expression which can have operations Addition, Subtraction, Multiplication, Divison, Modulus and Round brackets:
14+27

Entered arithmetic expression is Invalid

[root@localhost-live 210701287]# •/a.out

Enter Any Arithmetic Expression which can have operations Addition, Subtraction, Multiplication, Divison, Modulus and Round brackets:
a=2*3

Entered arithmetic expression is Valid
```

RESULT:

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