**PROGRAM:**

**cdlab5.l:**

```
%{
   #include "y.tab.h"
%}

%%

[a-zA-Z_][a-zA-Z_0-9]* return id;

[0-9]+(\.[0-9]*)?      return num;

[+/*]                   return op;

.                      return yytext[0];

\n                      return 0;

%%

int yywrap(){
return 1;
}
```

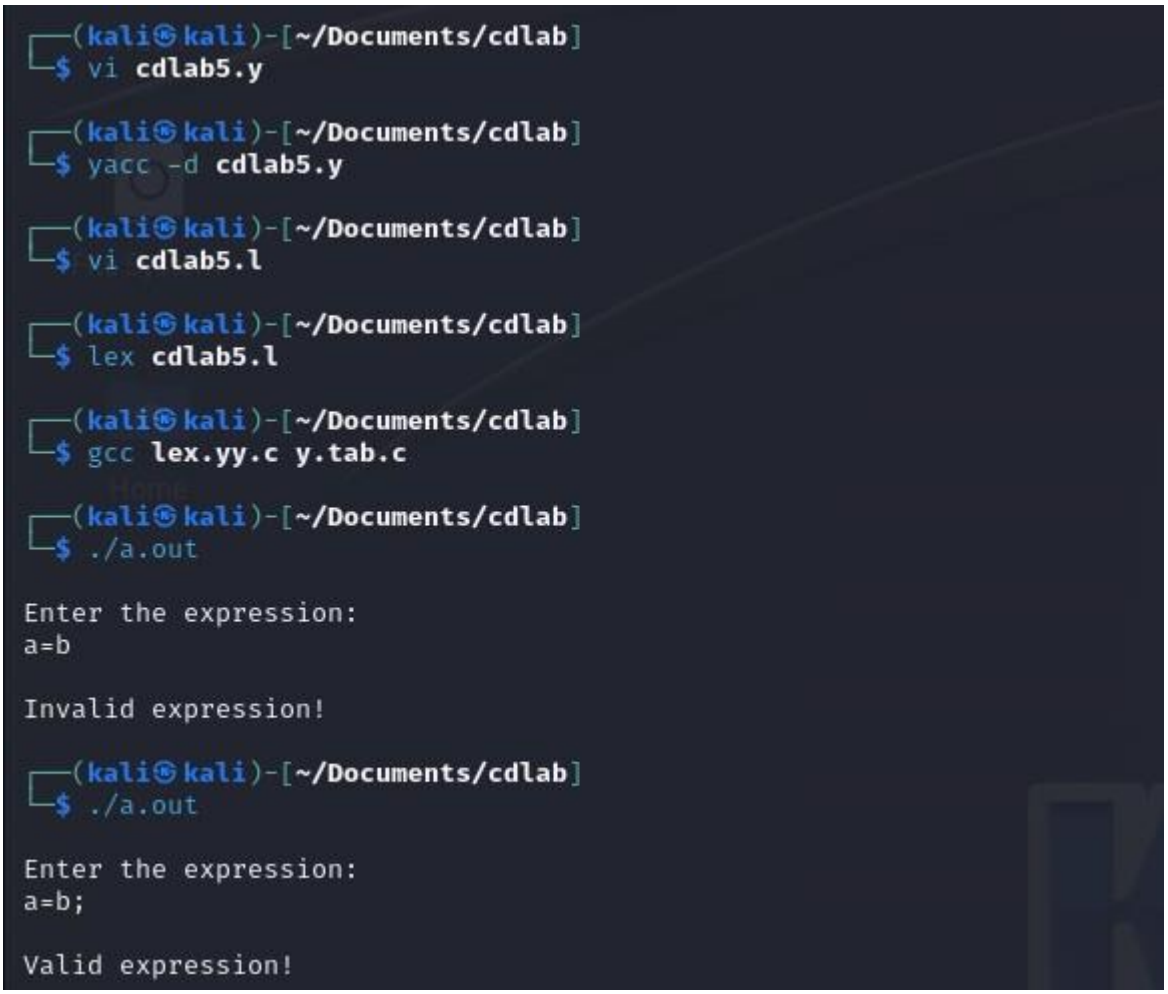
**cdlab5.y:**

```
%{

   #include<stdio.h>
   int yylex());
   int yyerror();
   int valid=1;

%}

%token num id op

%%

start : id '=' s ';'

s :     id x

      | num x

      | '-' num x

      | '(' s ')' x

      ;

x :     op s
```

Roll Number: 210701090
Name: JEEVA BHARATHI K

```
    | '-' s
    |
    ;
%%
int yyerror(){
   valid=0;
   printf("\nInvalid expression!\n");
   return 0;
}
int main(){
   printf("\nEnter the expression:\n");
   yyparse();
   if(valid){
      printf("\nValid expression!\n");
   }}
```

**OUTPUT:**




**RESULT:**

Thus, a program to check whether the arithmetic expression using lex and yacc tool is implemented.

Roll Number: 210701090
Name: JEEVA BHARATHI K