

Aim:

To write the program using LEX and YACC to implement ~~parser or~~ Desktop Calculator

Algorithm:File.l

- step 1: start
- step 2: Include the necessary header files and declare the necessary variables
- step 3: Define the keywords and the identifiers with the constant and operator
- step 4: Get the input for analysis from user
- step 5: check each and every element in the statement with number
- step 6: check each and every element in the statement with ^{small} alphabet
- step 7: Check each and every element for the operator
- step 8: Else print Invalid Token
- step 9: return the value
- step 10: stop

File.y

- step 1: start
- step 2: Include the necessary header files and declare the necessary variables
- step 3: Define the keywords and the identifiers with the constant and operator.
- step 4: Take the value which was taken from user and implement the respective operator.
- step 5: return the value and print it.

Step 6: Stop

Program: \rightarrow File 1
 1. {

```
#include <stdlib.h>
#include "y.tab.h"
void yyerror(char *s);
extern int yyval;
```

1. }

2. 2.

```
[0-9] { yyval = atoi(yytext); return INT; }
[a-z] { yyval = toascii(*yytext) - 97; return ID; }
[A-Z] { yyval = toascii(*yytext) - 65; return ID; }
[- + * = \n] { return *yytext; }
'(' { return *yytext; }
')' { return *yytext; }
```

[\t] ,

```
{ yyerror("Invalid Token!!"); }
```

2. 2.

```
int yywrap()
```

```
{
```

```
return 1;
```

```
}
```

File 2

1. {

```
#include <stdio.h>
extern int yylex(void);
void yyerror(char *s);
```



```
int x=0
```

```
int val[26];
```

```
{}
```

```
% token INT ID
```

```
% %
```

```
mohkish:
```

```
mohkish expr 'n'
```

```
{ mohkish ID = expr 'n'
```

```
{
```

```
;
```

```
expr:
```

```
expr '+' T
```

```
| expr '-' T
```

```
| T
```

```
| '+' T
```

```
| '-' T
```

```
}
```

```
T:
```

```
F
```

```
| T '*' F
```

```
| T '/' F
```

```
| '*' F
```

```
| '/' F
```

```
;
```

```
INT
```

```
| ID
```

```
| '(' expr ')'
```

```
;
```

```
% %
```

```
{ x = $2; printf("y.d\n", $2); }
```

```
{ val[$2] = $4; }
```

```
{ $$ = $1 + $3; }
```

```
{ $$ = $1 - $3; }
```

```
{ $$ = $1; }
```

```
{ $$ = x + $2; }
```

```
{ $$ = x - $2; }
```

```
{ $ $ = $1; }
```

```
{ $$ = $1 * $3; }
```

```
{ $$ = $1 / $3; }
```

```
{ $$ = x * $2; }
```

```
{ $$ = x / $2; }
```

```
{ $$ = $1; }
```

```
{ $$ = val[$1]; }
```

```
{ $$ = $2; }
```

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Date : _____

```
void yyerror (char* s)
{
    printf ("%s", s);
}
```

```
int main()
{
    yy parse();
    return 0;
}
```

Result:

Use LEX and YACC to implement ~~parser~~ Desktop Calculator is executed successfully.

El Mahesh Devaraj/Collage/Semester VI Sem/Compiler Design Lab/Lab Exercise/Exercise 4. Use LEX and YACC tool to implement Desktop Calculator/Files - EditPl

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```

1 #!
2 #include <stdio.h>
3 #include <stdlib.h>
4 void yyerror(char *s)
5 {
6     return 1;
7 }
8
9 int yyval;
10
11 int yyparse()
12 {
13     return 0;
14 }
15
16 int yyerror(char *s)
17 {
18     printf("Invalid Token!!\n");
19 }
20
21 int yywrap()
22 {
23     return 1;
24 }

```

Lex/Yacc Build -----
Output completed (0 sec consumed) - Normal Termination

All Files (*)

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El Mahesh Devaraj/Collage/Semester VI Sem/Compiler Design Lab/Lab Exercise/Exercise 4. Use LEX and YACC tool to implement Desktop Calculator/Files - EditPl

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```

1 #!
2 #include <stdio.h>
3 #include <stdlib.h>
4 void yyerror(char *s)
5 {
6     return 1;
7 }
8
9 int yyval;
10
11 int yyparse()
12 {
13     return 0;
14 }
15
16 int yyerror(char *s)
17 {
18     printf("Invalid Token!!\n");
19 }
20
21 int yywrap()
22 {
23     return 1;
24 }
25
26 int main()
27 {
28     int i;
29     int j;
30     int k;
31     int l;
32     int m;
33     int n;
34     int o;
35     int p;
36     int q;
37     int r;
38     int s;
39     int t;
40     int u;
41     int v;
42     int w;
43     int x;
44     int y;
45     int z;
46     int aa;
47     int bb;
48     int cc;
49     int dd;
50     int ee;
51     int ff;
52     int gg;
53     int hh;
54     int ii;
55     int jj;
56     int kk;
57     int ll;
58     int mm;
59     int nn;
60     int oo;
61     int pp;
62     int qq;
63     int rr;
64     int ss;
65     int tt;
66     int uu;
67     int vv;
68     int ww;
69     int xx;
70     int yy;
71     int zz;
72     int aaa;
73     int bbb;
74     int ccc;
75     int ddd;
76     int eee;
77     int fff;
78     int ggg;
79     int hhh;
80     int iii;
81     int jjj;
82     int kkk;
83     int lll;
84     int mmm;
85     int nnn;
86     int ooo;
87     int ppp;
88     int qqq;
89     int rrr;
90     int sss;
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92     int uuu;
93     int vvv;
94     int www;
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96     int yyy;
97     int zzz;
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E:\Mohnish Devaraj\College\Semesters\VI Sem\Compiler Design Lab\Lab Exercises\Exercises\4. Use LEX and YACC tool to implement ...  
2+5+6*8/5  
16  
23+23-23*56/85  
31
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