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LAPILIVAINE. BE LEX & YACC tool to implement Desktop Calculator Date:		
Aim:		
To write the program using LEX and YACC to implement		
parson of una Desktop Calculator		
The sector secto		
Algorithm:		
File.1		
step 1: Start		
(to 2: [sal 1]		
step 2: Include the necessary header files and declare the		
necessary variables		
step 3: Define the keywords and the identifiers with the constant and		
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 alphabet		
step 6: check each and every element in the statement with alphabed		
step 7: Check each and every element for the operator		
step 8: Else print Invalid Token		
step 9: return the value		
step10: Stop		
<u>File.y</u>		
step 1: Start		
step 2: Include the necessary header files and declare the necessary		
variable		
step 3: Define the keywords and the identifier with the constant		
and operator:		
step 4: Take the value which was taken from view and implement		
the respective operator.		
steps: return the value and print it.		

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Step 6: Stop	
Ω	
Program: File!	
# include < stdlib.h>	
# include ey. +ab. h'	
roid yyerror (char *s);	
extern int yylval;	
×. 3	
7. 7.	
[0-9]+ Eyy Ival : atoi (yytext); return INT:3	
[a-2] &yylval = toascii (* yytext)-97] return ID:}	
[A-Z] Eyylval = to ascii (*yytext)-65; return ID;3	
[-+ = /In] Freturn *yytext)	
"(Ereturn * ystext; 3	
")" { return * yytext s}	
Ryyerror ("Invalid Token! 1"); 3	
y-y.	
int yywrap()	
return 1)	
Filey	
Y. \$	
# include < stdio.h>	
extern int 44/0x Cloids	
aid werror (char*):	
void yyerror (chor *);	

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1	
int r=0	
int val[26]	
7.5	
/ token INT ID	
mohaish:	1000 4000
mohnish expr'in'	{x=\$2; printf ("ydln", \$2);}
1 mohnish ID = expr "In"	{ va [¥2] = \$4;3
)	
expr:	8\$\$ = \$1+ b3;}
expr + T	841=\$1-\$3;3
lexpr - T	744 = 418
/ T / '+' T	$\begin{cases} 1 & 2 \\ 2 & 3 \end{cases}$
('-/ †	3 \$ \$ = x - \$2;}
3	
Ţ:	
F	{c14 = 4 2 }
T * F	{\$b = \$1 + \$3;}
IT 'Y' F	3 d } = d1 / d3; }
/ * , t	{\$\$\$ = x*\$2;}
1 '7' F	{ = 2/ 2 }
INT	{\$\$ = \$1;3
] D	{\$\$\$ = val [41]; }
1 '('expr!)'	3 6 4 = 32) }
\sim 9	

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Void yyerror (char*s) { print f (">, s", s); }	
int main ()	
yyparse(); return 0; 3	
Result: Use LEX and YACC to implement parsent for D is executed successfully.	esktop Calculator