		Date	
Expt. No			Page No.
8	11 21	Cycle 2: Expt 4	MDL18CSO68
,			Malavika RV
			CS 7B
	Aim		Roll No :31
	To implement a calculator using hex and		
	Yace.		
	Algorithm.		
1.	Step 1:	Start	
2.	Skp 2:	In YACE file, intralize the variable	plag with o.
3.	Step 3:	In the rule section add rule j	
		exprusions au valid.	0 0
4.	Step 4:	LEX file helps to empule the	exprassion gues
	1	and duplay its list.	U
5.	8 kg 5 :	If step 315 rule is not followed	, call yyerror ()
	1	which prolls not an valid exp	
		glag to 1.	
6.	Step 6:	In main junction, input the e	xporession to be
	,	lested and evaluated and passe	<i>i</i> + .
7.	Step :	9/ pag = 0, print the expres	ssion is valid and
	•	display risult else go to step.	۲٠
8.	Step 8:	Stop.	
		V	
	Result:		,
	output was obtained successfully:		
	1	- J	
	1	, , , , , , , , , , , , , , , , , , , ,	

Teacher's Signature

Question 2

Implementation of Calculator using LEX and YACC

Output:

```
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>bison -dy
 variable.y
bison: cannot open file `variable.y': No such file or direct
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>bison -dy
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>flex calc
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>gcc lex.y
y.c y.tab.c
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>a
Enter Any Arithmetic Expression which can have operations Ad
dition, Subtraction, Multiplication, Divison, Modulus and Ro
und brackets:
4+5
Result=9
Entered arithmetic expression is Valid
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>a
Enter Any Arithmetic Expression which can have operations Ad
dition, Subtraction, Multiplication, Divison, Modulus and Ro
und brackets:
5/10
Result=0
Entered arithmetic expression is Valid
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg5>a
Enter Any Arithmetic Expression which can have operations Ad
dition, Subtraction, Multiplication, Divison, Modulus and Ro
und brackets:
Entered arithmetic expression is Invalid
```