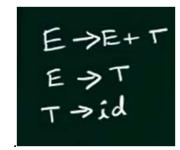
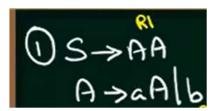
## **CHECK LR(0) OR NOT**



1.

2



2. CHECK SLR(1) OR NOT

$$S \rightarrow (L)/a$$
  
 $L \rightarrow L, S/S$ 

5.



6

```
S→Aa
| bAc
| dc
| bda
| A→d
```

7

$$S \rightarrow AaAb$$
 $BaBa$ 
[1] Test for LL(1), LR(0), SLR(1), LR(1) & LALR(1) Grammar
$$A \rightarrow E$$

$$B \rightarrow E$$

8.

$$S \rightarrow Aa$$

[3] Test for LL(1), LR(0), SLR(1), LR(1) & LALR(1) Grammar

[ $Ba$ 

[ $Ba$ 

[ $bBa$ 
 $A \rightarrow d$ 
 $B \rightarrow d$ 

9.



## DRAW ANNOTATED PARSE TREE AND EVALUATE THE ATTRIBUTES

SDD Productions & Semantic Rules		
S→xxW	Printf("1")	F
ly	Printf("2")	
W>Sz	Printl("3")	

	<u>SD</u>	
<u>Productio</u>	ns & Semantic Rules	INPUT: ((2+3)==8)
	if ((E.type==E.type)&&(E.type==int))	
E → E, + E,	then Erype = int else ERROR	
E,==E,	if ((E.type==E.type) kk (E.type== int/bool)) then E.type=bool else ERROR	- 1 WAY 1
(E,)	E.tope = E. tope	
num	E.type = int	
True	Extrec = bool	
False	E. 17pe = bool	

<u>Production</u>	INPUT = 1011	
N⇒L	N.count = L.count	
L → L,B	L-count = L-count + B.count	
B	L. count = B. count	
B⇒0	B. count = 0	
4.41.	B. count = 1	

**SDD** 

**Productions & Semantic Rules** 

INPUT: 2#385#684

E→E#T	E.val = E.val * T.val
\T	E.val = T.val
T->T&F	T.va = T.val + F.val
F	T.va = F.va
F→num	F.val = num.lvalue

	SDD for a Simple Calculator
<b>Productions &amp; Sem</b>	antic Rules



Productions & Semantic Rules		
E → E + T	E.val = E.val + T.val	
E⇒T	E.val = T.val	
T→T*F	T.val = T.val * F.val	
T→F	T.val = F.val	
F → (E)	F.Vd = E.val	
F→digit	F.val = digit	