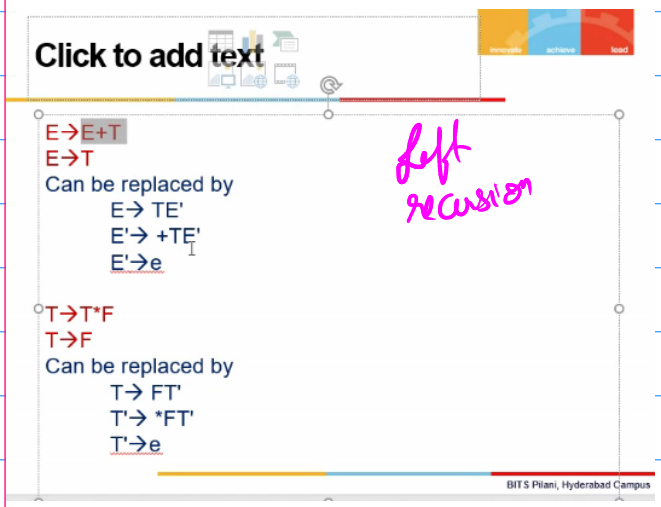
aaa bbb $ → terminal

aaaaa$ $a^* \cup (a^n b^n)$

$F \to id$ left factoring $F \to id A$
$F \to id(E)$ $A \to e$
$A \to (E)$



left recursion

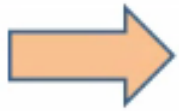
$S \to aA$
$A \to a \mid b \mid e$

(p, e, e) (q, S)
(q, e, S) (q, aA)
(q, a, e) (q, a)
(q, b, e) (q, b)
(q, $, e) (q, $)
(q, e, A) (q, a) } no transitions
(q, e, A) (q, b)
(q, $, A) (q, $)
(q, a, a) (q, e)
(q, b, b) (q, e)

aAb (q, b, e, b) (q, e)
ab

p e e	q, S
q e S	q a A
q e A	q a
q e a	q b
q e A	q c
q a a	q e
q b b	q e

E→T
E→E+T
T→T*F
T→F
F→(E)
F→id
F→id(E)



E→ TE'
E'→ +TE'
E'→e
T→ FT'
T'→ *FT'
T'→e
F→(E)
F→idA
A→ e
A→ (E)

id(id)

id(id)

CHECK

TB

PLS!

a,b,c etc.

Δ = {

((p,e,e), (q,E)),	(1)	
((q,a,e), (q_a, e)),	(2)	for each a $\in \sum \cup \{\$\}$
((q_a,e,a), (q,e)),	(3)	for each a $\in \sum$
((q_a,e,E), (q_a, TE')),	(4)	for each a $\in \sum \cup \{\$\}$
((q_+,e,E'), (q_+,+TE')),	(5)	
((q_a,e,E'), (q_a, e)),	(6)	for each a $\in$ {), $}
((q_a,e,T), (q_a, FT')),	(7)	for each a $\in \sum \cup \{\$\}$
((q_*,e,T'), (q_*, FT')),	(8)	
((q_a,e,T'), (q_a, e)),	(9)	for each a $\in$ {+,), $}
(($q_($,e,F), ($q_($, (E))),	(10)	
((q_{id},e,F), (q_{id},idA)),	(11)	
(($q_($,e,A), ($q_($,(E)))	(12)	
((q_a,e,A), (q_a, e)),	(13)	for each a $\in$ {+, *,), $}

}