## **Tutorial-8**

	Convert the following Gammer to CNP
	(9) ST AAA B
	AS AOI
	As Aoli Bs E.
	Colve
-	1 Removed & the Nullable variable
	au. SC 23
3 4 4 9	the boomines after Removing
	rullable vaniable au.
	S-3 AAA
	As Aalb.
	Generating Symbol aus.
	AS Ag
	A 3 \.
	There i's no conseachable Symbol
	Co arammer 1's
	S. AAA
	A-3 A q.
	A-9 1
	CNF Form
	S-3 AB B & AD (D)
	B.S. A.A. (New form) A.S. A.C.
	A 3 6 C 3 9
	C 7 A

Page
(B) S-3 a A a B   laB   ac   D
A-2 aA   B   C   E
B & B
C-9 cC Dab E
Ds dbB la1blE
D Remove & the Mullable Sets
au. & A,S, C,D}
A-SaAlBle
B 8 6R
B 3 68 C 3 c C   Dab   E
D -3 db 1310/b.
A 3 al A la A lB lc.
B 3 OB
e-s el ClcClab D Dab.
D-SdbBlalb. henerating variable (A, C,D).
Removing 13.
A-SalAlaAlC
C-9 c/c/cC/ab/D/Dab
D-3 a)6.
Every State is Reachable So nothing.
1's Removed
CIVE Form
3 As a Cac Dag
A s aA C s cC D s b.
A3 C C3 ab
10-51
C-9 Dab

A-39 C-3C
A-3×A C 34C D-36.
AGC Y-SC
X -> a C -3 PO
p-39
6-36
6-3 q
- C 191
- Cispr
P-3 PQ
2) Convert the following hommes to UNE
a) S-8 AB BC
B& AA   CB   L
C-3 alb.
Solve To large 2 1 1
The hoammer is already in.
CNF Form som-
As ABIa
B 3 AA 1CB 16
C -> a/b.
Replace non terminal with
Some another variable.
(-3 A)   A1 -3 A2 A3   A3 Ay
A -3 A2 A2 A2 A3 19
B-9 A3 A3-3 A2A2 A4A3 L
C-3 AY Ay-5 als.
1000000

A-5 0 A3 1 b Ay
A2 - 8 A2 A3 Q
Test Promision. Lecunsion.
definé New variale Z.
7-3 A3Z
A2-5 A3/a /A3Z laZ
A2-9 6/a/az/92
As put the value of Az and Ay in.
A3 7 6A2   0 A2   0 ZA2   0 ZA2   0 A3   6
put the Az in Z.
Z-3 6A27   0A22   aZA22   aZA22   aA32/
52
GNF Form
$A_1 \rightarrow A_3 \downarrow A_4$
A2 -3 6   a   az   az   az A2   aA3   b
A4-9 a)6
Z-5 6A2Z   aA2Z   aZA2Z   aZA2Z   aA2Z
162
(B) S-1 AB
A-3 BS 16
B = SA   a.
Solvi The Grommer is already in.
CNF Form.
S-3 AB
A-> BS 16
BosAla.

Peplace Ivon terminal verth.  New variable.
Deplace won terri
New Variable
Subject Control of the Control of th
A-3 A2
B-8.A3
After Replacing the Coronner 16.
A1 -3 A2 A3
A2 -3 A3A1 16
A3 8 A1 A2 9,
in Ar put An vailue in place
61 A2
0. 1 100
in Az put Az valus in place.
0/ A3
A230A1)6.
In A3 put A1 valur
A3 - 5 B A3 A2   9.
And the late of the land on the late of th
GNF Form
A1-3 6A3
A2-8 a A1/6
A 3 & b A 3 A 2 la.
7 45 - 3