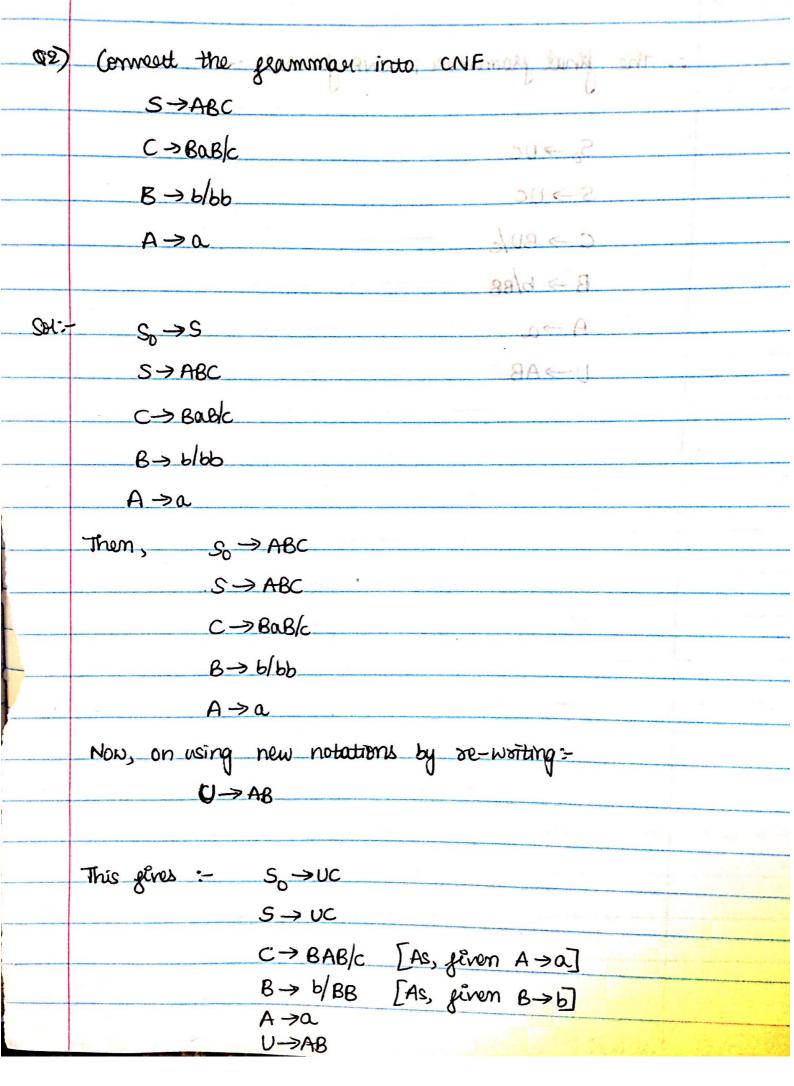
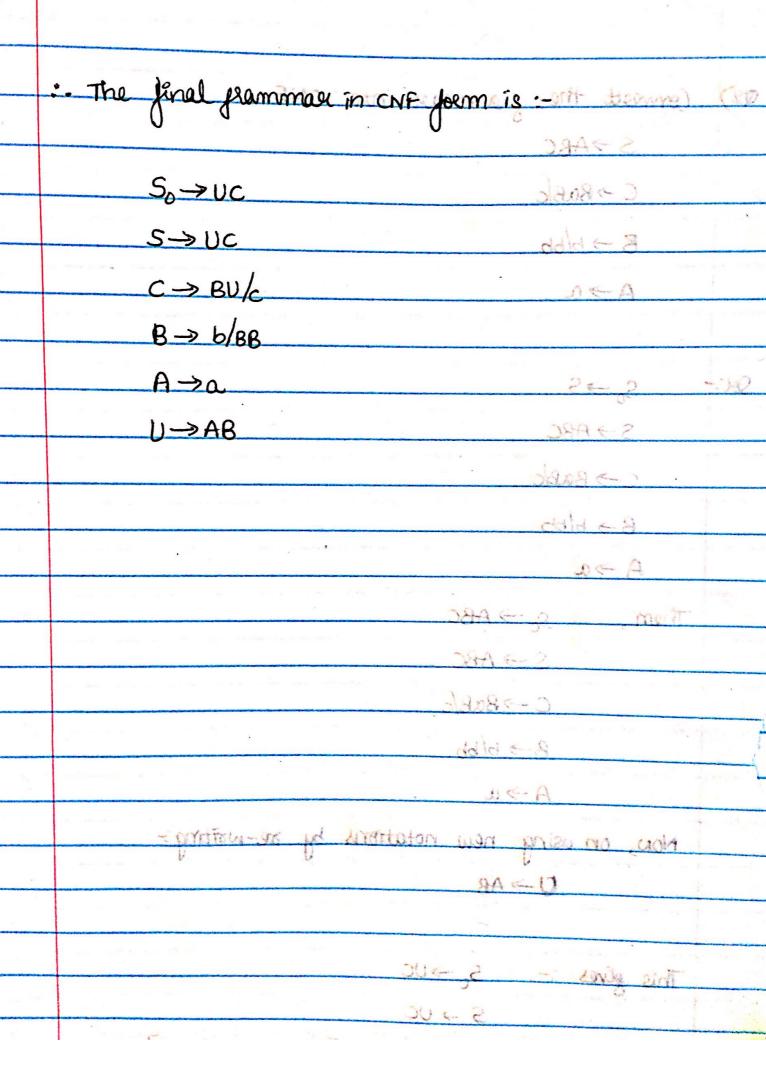
	ASSIGNMENT-6
a \	Pare more off of
(1p	Convert the grammax into CNF
	The second of the
11.0	A->aab
	B→Act Romancial Land 7 199 ← 2
Sol:-	C > C
	S>ABa
	Arah
	B→Ac
	Them, $S_0 \rightarrow AB0$
	S → ABa
	$A \rightarrow ab$
	8 → Ac
	Now, 9 would re-write it as below:
	R→AB
	$R_1 \rightarrow \alpha$ $R_2 \rightarrow b$
	R ₂ →C
	On using the new notations:-
	$S_0 \rightarrow RR$, [Since, $R \rightarrow AB$]
	S→ RR, [Since, R→AB and R,>a]
	$A \rightarrow R_1 R_1 R_2$ [Since, $R_1 \rightarrow a$, $R_2 \rightarrow b$]
	$B \rightarrow AR_3$ [Since, $R_3 \rightarrow c$]





Gi = (V,T,S,P) is a CNF Gramman without any Q3) E-parductions (00) unit parductions. UNIT PRODUCTION: -MATE A >B Where A, B & V :- Maximum number of cymbols on the right of any production in P Bove that there is an equivalent CNF grammar with no more than (K-1) |P| + |T| productions. Sol:-G = (V, T, S, P)Mow: IT sepresents the total number of terminals. IP sepresents the total number of productions. Total number of rules with terminal: Atmost [T] Given, K:- Maximum number of symbols on the right of productions On using the terminal rules on any given production, the production is the STRING OF ALL NON-TERMINAL SYMBOLS. .. To convert into CNF, the string of length K is split into (K-1) mays.

The production can be NO MORE THAN (K-DIP) + IT!

Jos both terminals and non-terminals.