Computational Linguistics
Homework 4

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Ans1.

S									
S	--								
S	--	--							
--	--	--	S						
NP	--	--	S	--					
--	N	--	S	--	--				
--	--	PP	--	--	--	VP			
--	--	--	NP	--	--	VP	S		
NP	--	--	--	N	--	VP	S	VP	
DT	TV N	P Adj N	DT	Adj VP	N	TV SV	NP	TV VP Adj	NP
The	evidence	in	the	stolen	car	proves	you	stalked	Robin

The Grammar after into CNF is given below:

NP → DT N
N → N PP
N → Adj N
PP → P NP
S → NP VP
VP → TV NP
VP → DVP NP
DVP → DTV NP
VP → VP PP
VP → SV S

DT → The
TV → evidence
N → evidence
ADJ → in
N → in
P → in
DT → the
ADJ → stolen
VP → stolen
N → car

SV → proves
TV → proves
NP → you
VP → stalked
TV → stalked
ADJ → stalked
NP → Robin