## Steps to convert a given CFG to Chomsky Normal Form:

- Step 1: If the Start Symbol S occurs on some right side, create a new Start Synand a new Production S'→S.
- Step 2: Remove Null Productions. (Using the Null Production Removal discussed in Lecture)
- Step 3: Remove Unit Productions. (Using the Unit Production Removal discussed i Lecture)
- Step 4: Replace each Production  $A \rightarrow B_1$  ...... $B_n$  where n > 2, with  $A \rightarrow B_1 C$  where C Repeat this step for all Productions having two or more Symbols on the r
- Step 5: If the right side of any Produ<mark>ction is in the</mark> form A→aB where 'a' is a ter A and B are non-terminals, then the roduction is replaced by A→XB and Repeat this step for every Production which is of the form A→aB

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