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 Symbol S' and a new Production S'→S.
- Step 2: Remove Null Productions. (Using the Null Production Removal discussed in previous Lecture)
- Step 3: Remove Unit Productions. (Using the Unit Production Removal discussed in previous Lecture)
- Step 4: Replace each Production $A \rightarrow B_1$ B_n where n > 2, with $A \rightarrow B_1 C$ where $C \rightarrow B_2$ B_n Repeat this step for all Productions having two or more Symbols on the right side.
- Step 5: If the right side of any Production is in the form A→aB where 'a' is a terminal and A and B are non-terminals, then the Production is replaced by A→XB and X→a. Repeat this step for every Production which is of the form A→aB