Writing CFG rules

[Instruction]

- 1. Provide A SET OF RULES to parse all the 5 sentences.
- 2. In case you are not able to provide a set, then do the followings.
 - ♦ Write **5 sets** of rules, each of which parses a corresponding sentence
- > The rules should be in the **CFG** format.
 - ♦ The format can be replaced with CNF.
- > The non-terminal symbols can be used with a choice of your own, but they still have to be linguistically meaningful to others.
- > A lexicon has to be defined.
- The rules should be able to describe ALL and ONLY grammatical sentences.

[Sentences to be analyzed]

- 1. Many people gathered to see the famous concert.
- 2. The outdoor concert will be canceled if it rains.
- 3. The shop manager wrote an email to the customer.
- 4. When he finished cooking, his wife and her sister returned home.
- 5. Which option do you want to select?

[What to submit?]

- 1. Grammar Files
 - A file including a set of CFG rules to parse all the sentences
 - > If you have written separate rules for the sentences,
 - ✓ 5 Files, each of which includes a set of rules to parse a corresponding sentence.
- 2. Files Containing Output Trees
 - A file or files including all the parse trees produced by the set of rules to describe all the 5 sentences
- ♣ What to include in the files and how to name them?
 - Grammar files
 - → grammar_yourname.cfg: if you have a set of rules for the five sentences
 OR

- grammar1_yourname.cfg, grammar2_yourname.cfg, etc., representing each sentence
 - ✓ if you have a set of grammar per each sentence

> Output files

- result1_yourname.txt, result2_yourname.txt, etc., representing each sentence
 - ✓ Each file should contain the output of each sentence.
- ➤ A file containing the captures of the trees for the five sentences
 - ❖ Just submit top three trees for each sentence if there are more than three trees.
 - **♦** Specify how many trees are derived for each sentence
 - ✓ e.g., sentence1: 5 trees