Lecture-2 Main Points

- Language of Propositional Logic.
  - Atomic propositions.
  - Connectives: $\wedge, \rightarrow, \vee$ and $\bot$.
  - Derived connective: $\neg A \equiv A \rightarrow \bot$.
  - Formal rules for forming propositions.
- judgements: $\Gamma \vdash A$
- Rules of inference help derive new judgements.
- Rules of inference for minimal logic
  - Axiom
  - Structural rules
    - Weakening
    - Contraction
  - Logical rules
    - For each connective there are two types.
      Introduction rule(s) and elimination rule(s).
- Example derivations.