First 15 minutes please

• Recap apparently, lite stuff

Is thinking logic?

• Thinking also involves recalling, imagining, assumption, hating, loving etc.

Is logic Reasoning? What is reasoning? What is reason?

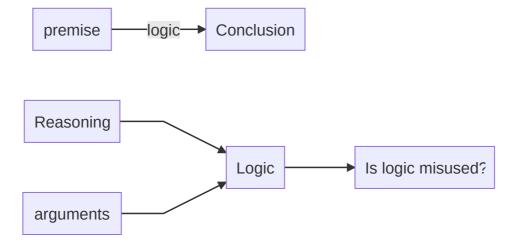
- Reason= The ability to arrive at a conclusion given the premises
- Logic= Relationship between the conclusion and premises
- Reasoning = Using the ability/reason to arrive at the conclusion
- Logic = Is your reasoning correct or not?

Although not technically correct

- Can something be rational yet, illogical? And irrational yet logical
 Eg. Books of law: Any kind of murder with malicious intent, not out of self defence should be punishable with death
 Now if a 5 year old did it? Logically yes, Rationally naaah
- Intuition opposite of tuition: a hunch we don't learn

What do we need logic for?

Given infomration aka premise --> Conclusion



Logic lets us test if the conclusion that we arrived with premises, was correct or not.

- the whole process is called argumentation

End

Questions after the slides were over

- 1. If we arrive at a conclusion given the premise and the premise in itself is false. Would the conclusion be logical?
 - Yes. This will however be dealt more in detail in the class where we deal with soundness
- 2. Is it true that we can assume any given premise as true for the purpose of logical proof?
 - Yes. we can assume statements to be true. And then it will be logical if from the premise we can reach the conclusion
 - The truth values are determined from the environment, i.e. the world
- 3. what if a person kills a man who molested his son and killed him. is this irrational and logical?
 - My example was entirely made up. I am not a legal expert. So, please do not rely on my example for the real world scenario.
 - Murder is not punishable by death in first world countries. In fact, murder itself is a vague term.

They use various varieties of terms like Homicide, culpable man slaughter, etc. Assassination, murder, killing, etc.

- When many people are killed, it is called genocide.
 Based on the premise, i.e. the law, and the situation/case on hand, you can arrive at a conclusion/punishment.
- Whether this whole process was correct or not, that is logic.
- Premise: All Xs are Y. John is an X.
 - Conclusion: Therefore, John is also a Y.
 - It does not matter what X and Y completely is, for logic.