Logical Inference - Task 7

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Understanding Forward and Backward chaining:

Read the GFG and MIT material on forward and backward chaining and went through some of the examples on the topics to get a basic understanding of the concepts.

Implementing Forward and Backward chaining:

For the implementation purpose we chose the Github assignment for CSE240 where we solved problems 4,5 and 6 to get a better understanding of the working of forward and backward chaining for First Order Logic problems.

Problem 4 was straightforward as we were able to link our understanding with the Simpsons data, especially the grandparent rule which is similar to the one-rule system asked in the problem. We tested the written rule on abc_data, poker_data and minecraft_data.

Problem 5 was a little tricky compared to problem 4, but still we were able to figure out the task with the help of a couple of the rules already provided inside the function and along with the explanations. Figuring out the rule for “Cousin” alone required a little more thinking than other rules.

Problem 6 was difficult compared to the other 2. Initially read through the explanations given in the notebook and tried to understand the goal tree generated by comparing it with the zoo-keeper data. In addition to that we went through the specific functions imported in this problem and with this we were able to solve the task.