CSE 404
Artificial Intelligence Lab
B2

Assignment 1

Task

Implement a basic family relationship tree structure of your own family using Prolog. Write rules to determine the degree and removal for up to the 3rd degree and twice removed situation for cousin relationships.

For detailed instructions on understanding cousin relationships, please refer to the following link: https://simple.wikipedia.org/wiki/Cousin

The task involves the following steps:

1. Create a tree structure representing your own family using tools like draw.io or lucidchart. 2. Convert the tree structure into Prolog code, defining facts and rules to represent the family relationships.
3. Prepare a report summarizing the process of creating the tree structure and translating it into Prolog, along with any observations or insights gained during the task.

Report

The report should contain :

- Problem Title
- Problem Description
- Tools and Languages used
- Diagram / Figure
- Sample Input / Output
- Conclusion and Challenges

Submission

You have to submit the following files in the classroom under this assignment :

1. Source Code
2. Diagram of your family tree
3. Technical Report

Marks Distribution

Task	Marks
Implementation	10
Report	5
Viva	5