CSE 643 – Artificial Intelligence

Practice Assignment 1

Write a Prolog program to find all possible family relations like first-cousins, second-cousins, grandfathers, grandmothers, husband, wife, sons, daughters, brothers, sisters, siblings, brothers-in-law, sisters-in-law, uncles, aunts, granduncles, grandaunts, etc. using only the following 5 predicates

parent(X, Y).

child(X, Y).

male(X).

female(X).

spouse(X, Y).

Define some facts using the above predicates for a fictious family and show that your program works.

You need to submit a PDF of your program along with screenshots for the working of your program.