

PROLOG

AIM:- To develop a family tree using prolog with all possible facts, rules & queries.

ALGORITHM:-

- 1) start by defining each family member's gender using male & female fact
- 2) Establish parent-child relationship
- 3) Define a mother rule to identify female parent.
- 4) Add a grandmother rule by checking if female is parent of parent.
- 5) Create a sibling rule to identify with shared surname they are not the same person.
- 6) Use queries to test relationships a parent grandparent.
- 7) Run queries.

Prolog Code:-

male (peter)

male (John)

male (Chris)

male (Kevin)

female (Betty)

female (Jenny)

female (Lisa)

female (Helen)

parent of (Chris, Peter)

parent of (John, Betty)

parent of (Helen, Peter)

parent of (Kevin, Lisa)

Rule

father (X, Y):

male (X),
parent of (X, Y)

mother (X, Y):

female (X),
parent (X, Y)

~~grandfather~~

~~mother~~ (grandfather (X, Y)):

male (X),
parent of (X, Z),
parent of (Z, Y)

grandmother (X, Y):

female (X),
parent of (X, Z),
parent of (Z, Y)

sister (X, Y)

female (X),
parent (Z, X),
parent of (Z, Y):
X = Y

OUTPUT

male (petter)

me

father (Chris, petter)

me

father (Chris, betty)

father

mother (Chris, X)

X = betty

RESULT:

Thus the program to develop a family tree using pedigree is successfully executed & verified.

examined by the student and found correct.

marking paper. marked/signed by the teacher.

30-11-2021

1. To know, prepare pedigree chart for a family tree.

2. To understand the difference between the pedigree chart and the family tree.

3. To know the difference between the pedigree chart and the family tree.

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