

PROLOGI.

AIM:

To develop a family tree program using PROLOGI with all possible facts, rules and queries.

SOURCECODE:-

/\* FACTS : : + 1

male (peter).

male (John)

male (Chris)

male (Kevin)

female (Betty)

female (Sue)

female (Lisa)

female (Helen)

Parent of (Chris, Peter)

Parent of (Chris, Betty).

Parent of (Helen, Peter)

Parent of (Helen, Betty)

Parent of (Kevin, Chris)

Parent of (Kevin, Lisa)

Parent of (Sue, John)

Parent of (Sue, Helen).

/\* Rules \* : : 1

/\* son-parent

\* son-grandparent + 1

father (X, Y) :- male(Y),

Parent of (X, Y).

mother (X, Y) :- female(Y),

Parent (X, Y).

grandfather (X, Y) :- male(Y),

Parent of (X, Z),

Parent of (Z, Y).

Grandmother (X, Y) :- female (Y)

Parent of (X, Z),

Parent of (Z, Y).

brother (X, Y) :- Male (Y),

father (X, Z),

father (Y, W),

Z = W.

Sister (X, Y) :- female (Y)

father (X, Z),

father (Y, W),

Z = W.

OUTPUT:-

male (Peter)

true

father (cheer, Peter)

true

father (cheer, belly)

false

mother (cheer, X)

X = belly

brother (cheer, Helen)

false

RESULT:-

✓ Thus Prolog for family tree program using prolog is implemented and executed successfully.