

OUTPUT

male(peter) \rightarrow true
father(chris, peter) \rightarrow true
father(chris, betty) \rightarrow false
grandfather(kenin, peter) \rightarrow true
grandfather(jerry, peter) \rightarrow false
grandmother(jerry, peter) \rightarrow false
mother(chris, x) \rightarrow x = betty
brother(helen, chris) \rightarrow true
brother(chris, helen) \rightarrow false

father(x, y)

x = chris	x = helen	x = jerry	x = kenin
y = peter	y = peter	y = john	y = chris

mother(x, y)

x = chris	x = helen	x = kenin	x = jerry
y = betty	y = betty	y = bria	y = helen

grandmother(x, y)

x = kenin	x = jerry
y = betty	y = betty

grandfather(x, y)

x = kenin	x = jerry
y = peter	y = peter

mother(x, y)

x = y, y = chris
x = helen,
y = chris

x = y,
y = kenin

sister(x, y)

x = y, y = jenny
x = chris
y = jenny
x = y, y = helen.

EXPNO: 12AIM: PROLOG FAMILY TREEKNOWLEDGE BASE:FACTS

male(peter)

male(john)

male(chris)

male(kenin)

female(betty)

female(jeny)

female(lisa)

female(helen)

parentof(chris, peter)

parentof(chris, betty)

parentof(helen, peter)

parentof(helen, betty)

parentof(kenin, chris)

parentof(kenin, lisa)

parentof(jeny, john)

parentof(jeny, helen)

mother(x,y) :- female(y),
parentof(x,y).grandfather :- male(y)
parentof(x,z)
parentof(z,y)grandmother(x,y) :- female(y)
parentof(x,z),
parentof(z,y)brother(x,y) :- male(y),
father(x,z)
father(y,w),
z = wsister(x,y) :- female(y)
father(x,z)
father(y,w)
z = wRULES:

son, grandparent

son, parent

father(x,y) :- male(y),

parentof(x,y).