

Exp No: 7

Date:

## Prolog

AIM  
→ to develop family tree program using PROLOG with all possible facts, rules, queries

### Code

male (Peter).  
male (John).  
male (Chris).  
male (Kevin).

female (Betty).  
female (Jenny).  
female (Lisa).  
female (Helen).

parentOf (Chris, Peter).  
parentOf (Chris, Betty).  
parentOf (Helen, Betty).  
parentOf (Kevin, Chris).  
parentOf (Kevin, Lisa).  
parentOf (Jenny, John).  
parentOf (Jenny, Helen).

father (X, Y) :- male(Y), parentOf (X, Y).  
mother (X, Y) :- female(Y), parentOf (X, Y).  
~~grandfather~~ (X, Y) :- 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==w.

sister(x, y):- female(y), father(x, z), father(y, w),  
z==w

### Result

→ Thus the program of PROLOG  
has been executed successfully & output  
is verified

