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**To implement the family tree program** **Program:**

**% Facts about** the family members

female(pam). female(liz). female(ann). female(pat).

male(tom). male(bob). male(jim).

% Parent relations parent(tom, liz). parent(tom, bob). parent(pam, liz). parent(pam, bob). parent(bob, ann). parent(bob, pat). parent(liz, jim).

% Mother relation mother(X, Y) :- female(X), parent(X, Y).

% Father relation

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

% Grandmother relation grandmother(X, Y) :-

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

% Grandfather relation grandfather(X, Y) :- male(X), parent(X, Z), parent(Z, Y).

% Sister relation

sister(X, Y) :- female(X), parent(Z, X), parent(Z, Y),

X \= Y.

% Brother relation brother(X, Y) :- male(X), parent(Z, X), parent(Z, Y), X \= Y.

Output:

