**Exp23: Write the prolog program to implement family tree**

**Input:**

% Facts: parent(Parent, Child)

parent(john, michael).

parent(susan, michael).

parent(john, emily).

parent(susan, emily).

parent(michael, sophia).

parent(linda, sophia).

parent(emily, daniel).

parent(robert, daniel).

% Facts: gender

male(john).

male(michael).

male(robert).

male(daniel).

female(susan).

female(emily).

female(linda).

female(sophia).

% Rules

father(Father, Child) :-

parent(Father, Child),

male(Father).

mother(Mother, Child) :-

parent(Mother, Child),

female(Mother).

grandparent(Grandparent, Grandchild) :-

parent(Grandparent, Parent),

parent(Parent, Grandchild).

grandfather(GF, Grandchild) :-

grandparent(GF, Grandchild),

male(GF).

grandmother(GM, Grandchild) :-

grandparent(GM, Grandchild),

female(GM).

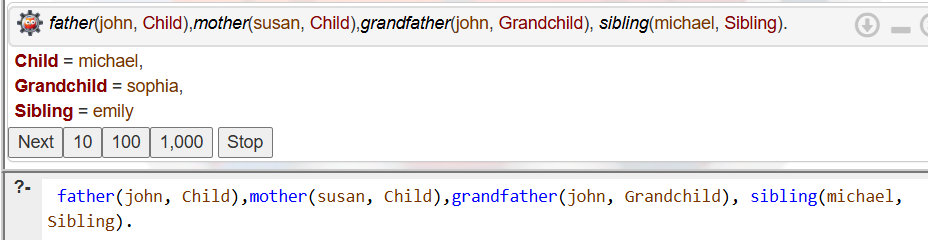
sibling(X, Y) :-

parent(P, X),

parent(P, Y),

X \= Y.

**Output:**

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