**Experiment No. 08**

**Aim:** To implement Family Tree in Prolog.

**Code:**

Knowledge Base:

female(uvi).

female(ushi).

female(ran).

female(sia).

female(kavi).

female(tina).

male(jay).

male(raj).

male(vijay).

male(ram).

male(sam).

male(kavi).

parent(ran, uvi).

parent(ran, ushi).

parent(jay, uvi).

parent(jay, ushi).

parent(raj, sia).

parent(raj, kavi).

parent(vijay, ram).

parent(vijay, tina).

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

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

grandparent(X, Y) :- parent(X, Z), parent(Z, Y).

grandmother(X, Y) :- female(X), grandparent(X, Y).

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

sibling(X, Y) :- parent(Z, X), parent(Z, Y), X \= Y.

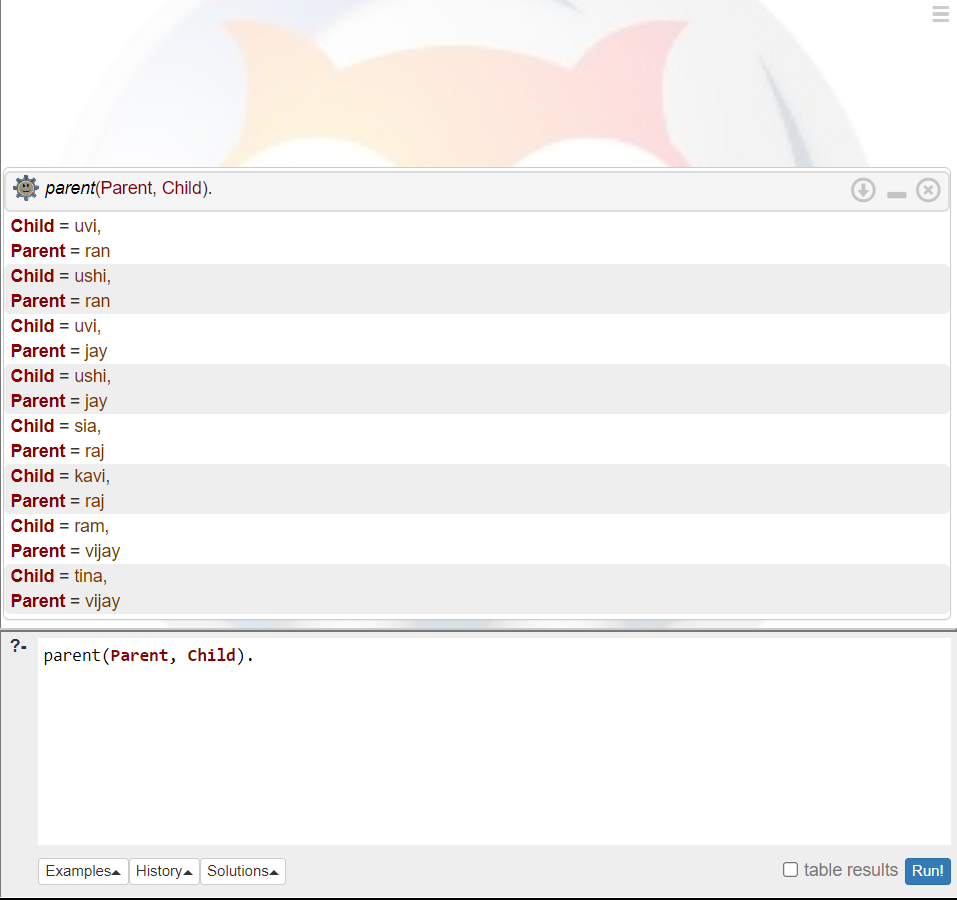
sister(X, Y) :- female(X), sibling(X, Y).

brother(X, Y) :- male(X), sibling(X, Y).

aunt(X, Y) :- female(X), sibling(X, Z), parent(Z, Y).

uncle(X, Y) :- male(X), sibling(X, Z), parent(Z, Y).

**Output:**

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**A screenshot of a computer

Description automatically generated**

**A white and pink screen

Description automatically generated with medium confidence**