**PRACTICAL-10**

**AIM:** Write a program to solve Tower of Hanoi problem using Prolog.

**Source Code:**

hanoi(N) :-

move(N, source, auxiliary, destination).

% Base case

move(0, \_, \_, \_) :- !.

% Recursive case

move(N, Source, Auxiliary, Destination) :-

M is N - 1,

move(M, Source, Destination, Auxiliary), % Swap Auxiliary and Destination

format('Move disk ~w from ~w to ~w~n', [N, Source, Destination]),

move(M, Auxiliary, Source, Destination).

**Output:**

