**Exp21 : Write a Prolog Program to implement Towers of Hanoi**

**Input:**

% Towers of Hanoi in Prolog

% hanoi(N, Source, Target, Auxiliary)

% Base case: Move one disk directly from Source to Target

hanoi(1, Source, Target, \_) :-

format('Move disk from ~w to ~w~n', [Source, Target]).

% Recursive case: Move N-1 disks to Auxiliary, move last disk to Target, then N-1 from Auxiliary to Target

hanoi(N, Source, Target, Auxiliary) :-

N > 1,

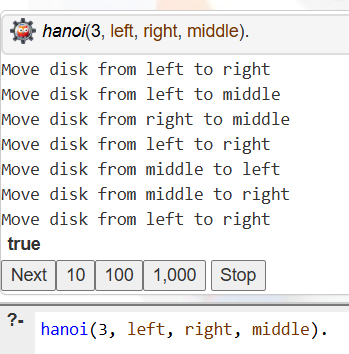
M is N - 1,

hanoi(M, Source, Auxiliary, Target),

hanoi(1, Source, Target, \_),

hanoi(M, Auxiliary, Target, Source).

**Output:**

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