**AI Experiment 2**

**Code**

mov(1, X, Y, \_) :-

write('Move top from '),

write(X),

write(' to '),

write(Y),

nl.

mov(N,X,Y,Z) :-

N>1,

M is N-1,

mov(M,X,Z,Y),

mov(1,X,Y,\_),

mov(M,Z,Y,X).

**Output**

8 ?- [toh].

true.

9 ?- mov(4,source,target,mid).

Move top from source to mid

Move top from source to target

Move top from mid to target

Move top from source to mid

Move top from target to source

Move top from target to mid

Move top from source to mid

Move top from source to target

Move top from mid to target

Move top from mid to source

Move top from target to source

Move top from mid to target

Move top from source to mid

Move top from source to target

Move top from mid to target

true