**Assignment 8**

**Write a program in Prolog to implement Tower of Hanoi(N) where N represents the number of disks.**

start:-write('Tower of Hanoi\n'),

write('Towers:3\n'),

write('Source,Auxiliary,Target\n'),

write('Enter number of disks: '),

read(N),

towerofhanoi(N).

towerofhanoi(N):-move(N,'Source','Target','Auxiliary').

move(1,X,Y,\_):-write('Move top disk from '),

write(X),

write(' to '),

write(Y),

nl.

move(N,X,Y,Z):-N>1,M is N-1,

move(M,X,Z,Y),

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

move(M,Z,Y,X).

**Output**

