

Experiment No. 5

Aim: To Implement Towers of Hanoi in PROLOG.

Program:

```
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:

```
?- move(3,left,right,center).  
Move top disk from left to right  
Move top disk from left to center  
Move top disk from right to center  
Move top disk from left to right  
Move top disk from center to left  
Move top disk from center to right  
Move top disk from left to right  
true .
```