Practical No.1

Exercise - Write a prolog program to solve Tower of hanoi Problem

Implementation:
Program:

towerOfHanoi.pl

```
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).

move(2,source,destination,int).
```

Output:

```
% c:/Users/DELL/Documents/Prolog/towerOfHanoi.pl compiled 0.00 sec, 3 clauses
?- move(3,source,designation,int).
Move top disk from source to designation
Move top disk from source to int
Move top disk from designation to int
Move top disk from source to designation
Move top disk from int to source
Move top disk from int to designation
Move top disk from source to designation
true
```