**Question 1: What are advantages and disadvantages of Recursion?**

**Advantages of Recursion**

* Recursion clarify the code and it also reduces the time needed to write and debug code.
* Recursion helps in reducing time complexity of algorithm.
* Recursion is helpful for object that have a repeated similar structural form.

**Disadvantages of Recursion**

* Recursion consume more memory instead of iteration.
* Recursion can be slow.
* Recursive function repeats the computations for some parameters, the run time can be prohibitively long even for very simple cases.

**Question 2: What are the rules and goal of Tower of Hanoi?**

The objective of tower of Hanoi problem is to move the stack of disks from the initial rod to another rod.

Following these **rules**:

* Only one disk can be moved at a time.
* Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack. In other words, a disk can only be moved if it is the uppermost disk on a stack.
* No larger disk may be placed on top of a smaller disk.

The **goals** of tower of Hanoi are to move all the disks from the leftmost rod to the rightmost rod. To move N disks from one rod to another, 2^𝑁−1 steps are required. So, to move 3 disks from starting the rod to the ending rod, a total of 7 steps are required.