
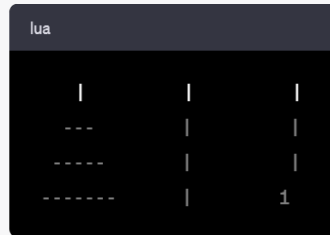




Department of ...Information Technology... Engineering
Innovative Teaching Methods

Activity Title	Visual Clues
Faculty Name/Department	R.Priya / Information Technology
Mapped Course Name & Code	GE 3151 & Problem Solving and Python Programming
Date	14.12.2022
Benefitted Students (Year / Sem / Dept)	I/I/ALL
Topic	Towers of Hanoi Problem
Description	The simplicity of these graphics can aid in understanding the step-by-step process of solving the problem. Certainly, visual aids can be really helpful for understanding the Towers of Hanoi problem. The visual aids show the progression of moving the discs from Peg A to Peg C while adhering to the rules of the Towers of Hanoi problem.
Course Outcomes (CO)	CO1: Develop algorithmic solutions to simple computational problems
Performance Indicator (PI)	1.4.1
Mail ID (for review)	it.priyar@gmail.com
Activity Photos	<p>Here's a step-by-step visual representation of the problem using simple graphics:</p> <div><div>Step 1: Initial Setup</div></div> <div><div>Step 2: Move Disc 1 to Peg C</div></div>



Topics/ Questions:

1. How many steps are required to solve the Towers of Hanoi problem having n discs?
2. What is the optimal data structure used to solve Towers of Hanoi?
3. What is the minimum time required to solve the towers of Hanoi?
4. What is the objective of Towers of Hanoi puzzle?
5. Mention the rules to be followed to solve the Towers of Hanoi.

Marks:

Group Name (if ITM is a group activity)	Roll No.	Task	Marks		
			Subject Knowledge (10)	Active Participation (10)	Total
A	1 to 13	3 discs	10	10	20
B	14 to 25	4 discs	10	10	20
C	26 to 34	5 discs	9	10	19
D	36 to 55	6 discs	9	9	18

Outcome:

1. Developed the algorithmic solutions to simple computational problems
2. Understand the basics of algorithmic problem solving