**AI FOR LLM- CSA1704**

**21. Write a Prolog Program to implement Towers of Hanoi.**

**CODE:**

def hanoi(n, source, target, auxiliary):

if n == 1:

print(f"Move disk 1 from {source} to {target}")

return

# Move n-1 disks from source to auxiliary

hanoi(n-1, source, auxiliary, target)

# Move the largest disk

print(f"Move disk {n} from {source} to {target}")

# Move n-1 disks from auxiliary to target

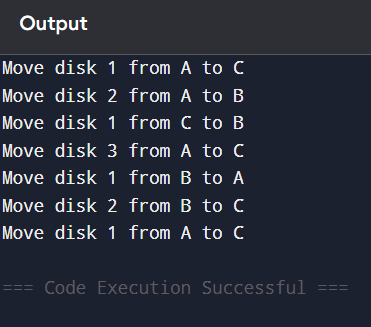
hanoi(n-1, auxiliary, target, source)

# Example usage

n = 3 # Number of disks

hanoi(n, "A", "C", "B")

**OUTPUT:**

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