# Recursive Python function to solve the tower of hanoi

def TowerOfHanoi(n , source, destination, auxiliary):

if n==1:

print ("Move disk 1 from source",source,"to destination",destination)

return

TowerOfHanoi(n-1, source, auxiliary, destination)

print ("Move disk",n,"from source",source,"to destination",destination)

TowerOfHanoi(n-1, auxiliary, destination, source)

# Driver code

n = 4

TowerOfHanoi(n,'A','B','C')

# A, C, B are the name of rods

**Output**

**Move disk 1 from source A to destination C**

**Move disk 2 from source A to destination B**

**Move disk 1 from source C to destination B**

**Move disk 3 from source A to destination C**

**Move disk 1 from source B to destination A**

**Move disk 2 from source B to destination C**

**Move disk 1 from source A to destination C**

**Move disk 4 from source A to destination B**

**Move disk 1 from source C to destination B**

Move disk 2 from source C to destination A

Move disk 1 from source B to destination A

Move disk 3 from source C to destination B

Move disk 1 from source A to destination C

Move disk 2 from source A to destination B

Move disk 1 from source C to destination B