

AGNEL INSTITUTE OF TECHNOLOGY AND DESIGN

```
#####  
#                                                                 #  
#              EXPERIMENT 4                                     #  
#              Tower Of Hanoi                                   #  
#              Nathan Cordeiro 22co09                           #  
#                                                                 #  
#####
```

```
def move(a,b):  
    print("Move",a, "to", b)  
def TowerofHanoi(n,A,B,C):  
    #if we have only one disk then we can directly transfer it to the destination  
    if (n==1):  
        move(A,C)  
    else:  
        TowerofHanoi(n-1, A, C, B)  
        move(A,C)  
        TowerofHanoi(n-1,B,A,C)  
  
n = int(input("Enter the number of disks:"))  
TowerofHanoi(n, "A", "B", "C")
```

OUTPUT:

```
Enter the number of disks:3  
Move A to C  
Move A to B  
Move C to B  
Move A to C  
Move B to A  
Move B to C  
Move A to C
```

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```
Enter the number of disks:4
```

```
Move A to B
```

```
Move A to C
```

```
Move B to C
```

```
Move A to B
```

```
Move C to A
```

```
Move C to B
```

```
Move A to B
```

```
Move A to C
```

```
Move B to C
```

```
Move B to A
```

```
Move C to A
```

```
Move B to C
```

```
Move A to B
```

```
Move A to C
```

```
Move B to C
```