

5.write a program to find factorial of a number using recursion

Aim: To find factorial of a number using recursion

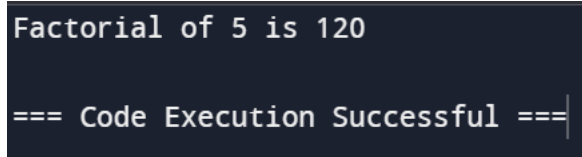
Program:

```
def factorial(n):  
    if n == 0:  
        return 1  
    else:  
        return n * factorial(n-1)
```

```
num = 5
```

```
print("Factorial of", num, "is", factorial(num))
```

Output:



```
Factorial of 5 is 120  
=== Code Execution Successful ===
```

Time complexity:- $O(n)$