5. Write a program to find the Factorial of a number using recursion.

PROGRAM:

```
def factorial(n):
    if n==0 or n==1:
        return 1
    else:
        return n*factorial(n-1)
n=int(input("Enter the number:"))
result=factorial(n)
print("The factorial of ",n," is:",result)
```

INPUT:

Enter the number:5

OUTPUT:

The factorial of 5 is: 120

TIME COMPLEXITY:

Time complexity of the above code is f(n)=O(n)