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

## Code:

```
def fact(x):
    if x==1:
        return 1
    else:
        return (x*fact(x-1))
num=int(input("Enter a number: "))
print(f"Factorial of {num} is {fact(num)}")
```

## **Output:**

```
Enter a number: 6
Factorial of 6 is 720
```

## **Time Complexity:**

• T(n)=O(n)