

Write a program to find a factorial of a number using function.

```
public class Factorial {  
    public static void main(String[] args) {  
        int num = 5; // change this value to calculate  
        factorial of a different number  
        int fact = factorial(num);  
        System.out.println("Factorial of " + num + " = " +  
fact);  
    }  
    public static int factorial(int n) {  
        int fact = 1;  
        for (int i = 1; i <= n; i++) {  
            fact = fact * i;  
        }  
        return fact;  
    }  
}
```

Factorial program using recursion

```
public class Factorial {  
    public static void main(String[] args) {  
        int num = 5; // change this value to calculate  
        factorial of a different number  
        int fact = factorial(num);  
        System.out.println("Factorial of " + num + " = " +  
fact);  
    }  
  
    public static int factorial(int n) {  
        if (n == 0 || n == 1) {  
            return 1;  
        } else {  
            return n * factorial(n - 1);  
        }  
    }  
}
```