Find the factorial of n?

CODE:

import java.util.Scanner;

public class Factorial {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Getting the value of n from the user

System.out.print("Enter a number to find its factorial: ");

int n = scanner.nextInt();

// Calculating factorial of n

long factorial = calculateFactorial(n);

// Displaying the result

System.out.println("Factorial of " + n + " is: " + factorial);

scanner.close();

}

public static long calculateFactorial(int n) {

if (n < 0) {

throw new IllegalArgumentException("Factorial is not defined for negative numbers.");

}

long factorial = 1;

for (int i = 1; i <= n; i++) {

factorial \*= i;

}

return factorial;

}

}

OUTPUT:

C:\javap>javac Factorial.java

C:\javap>java Factorial

Enter a number to find its factorial: 6

Factorial of 6 is: 720

