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## Lab 06 Report

Write a program that asks the user for an integer. If the integer is greater than or equal to 0, the program calculates the factorial of that number and prints that value. If the number entered is negative, the program prints an error message and quits.

```
import java.util.Scanner;

public class Factorial {

    public static void main(String [] args) {
        Scanner scnr = new Scanner(System.in);
        int num;
        System.out.println("Please enter an integer value "
                           + "greater than or equal to 0: ");
        num = scnr.nextInt();

        if (num < 0 ) {
            System.out.println("You cannot take the factorial "
                               + "of a negative number.");
        } else {

            int fact = factorial(num);
            System.out.println("The factorial of " + num
                               + " is " + fact);
        }
    }

    public static int factorial (int num) {
        int fact = 1;
        while (num > 0) {
            fact = fact*num;
            num = num-1;
        }
        return fact;
    }
}
```