

Bereich: Operatoren**Inkrement und Dekrement****Musterlösung****Package:** de.dhbwka.java.exercise.operators**Klasse:** IncrementDecrement

```
package de.dhbwka.java.exercise.operators;

/**
 * @author DHBW lecturer
 * @version 1.0
 *
 * Part of lectures on 'Programming in Java'.
 * Baden-Wuerttemberg Cooperative State University.
 *
 * (C) 2015 by J. Sidler, T. Schlachter, C. Schmitt, W. Süß
 */
public class IncrementDecrement {

    public static void main(String[] args) {
        int i=0;
        int j=0;
        j = ++i;
        int k = j++ + ++i;
        System.out.println("k: " + k);
        System.out.println("*: " + j++ + ++i);
        System.out.println(j++ + ++i);
        int m = j++ * ++i;
        System.out.println("m: " + m);
        int n = --j * --i;
        System.out.println("n: " + n);
        System.out.println("i: " + i);
        System.out.println("j: " + j);
    }
}
```

k: 3
*: 23
7
m: 20
n: 16
i: 4
j: 4

Bereich: Operatoren**Ostertermin berechnen****Musterlösung****Package:** de.dhbwka.java.exercise.operators**Klasse:** Easter

```
package de.dhbwka.java.exercise.operators;

import java.util.Scanner;

/**
 * @author DHBW lecturer
 * @version 1.0
 *
 * Part of lectures on 'Programming in Java'. Baden-Wuerttemberg
 * Cooperative State University.
 *
 * (C) 2015 by J. Sidler, T. Schlachter, C. Schmitt, W. Süß
 */
public class Easter {

    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.print("Ostertermin fuer welches Jahr berechnen? ");
        int year = scan.nextInt();
        scan.close();
        int a = year % 19;
        int b = year % 4;
        int c = year % 7;
        int k = year / 100;
        int p = (8 * k + 13) / 25;
        int q = k / 4;
        int M = (15 + k - p - q) % 30;
        int N = (4 + k - q) % 7;
        int d = (19 * a + M) % 30;
        int e = (2 * b + 4 * c + 6 * d + N) % 7;
        int easter = (22 + d + e);
        System.out.println("Im Jahr " + year +
            " ist der Ostersonntag am " +
            (easter < 32 ? easter : easter - 31) + ". " +
            (easter < 32 ? "März" : "April"));
    }
}
```

Beispielausgaben:

Ostertermin für welches Jahr berechnen? **2016**
Im Jahr 2016 ist der Ostersonntag am 27. März

Ostertermin für welches Jahr berechnen? **2019**
Im Jahr 2019 ist der Ostersonntag am 21. April

Bereich: Operatoren**Vorrang von Operatoren****Musterlösung****Package:** de.dhbwka.java.exercise.operators**Klasse:** Priority

```
package de.dhbwka.java.exercise.operators;

/**
 * @author DHBW lecturer
 * @version 1.0
 *
 * Part of lectures on 'Programming in Java'. Baden-Wuerttemberg
 * Cooperative State University.
 *
 * (C) 2015 by J. Sidler, T. Schlachter, C. Schmitt, W. Süß
 */
public class Priority {

    public static void main(String[] args) {
        System.out.println("1: " + (5 / 2 * 2));           4
        System.out.println("2: " + (9. / 2 * 5));          22.5

        boolean a = true, b = false, c = false;
        System.out.println("3: " + (a && b || c));          false

        char ch = 'c';
        System.out.println("4: " + ('a' + 1 < ch));         true

        int i = 1, j = 2, k = 3;
        System.out.println("5: " + (-i - 5 * j >= k + 1)); false

        i = 1;
        if (a || (++i == 2)) {
            System.out.println("6: " + i);                 1
        }

        i = 1;
        if (a | (++i == 2)) {
            System.out.println("7: " + i);                 2
        }
    }
}
```