

```
public class OperatorExample {  
    public static void main(String[] args) {  
        // Arithmetic Operators  
        int a = 10;  
        int b = 5;  
  
        int sum = a + b;  
        int difference = a - b;  
        int product = a * b;  
        int quotient = a / b;  
        int remainder = a % b;  
  
        System.out.println("Arithmetic Operators:");  
        System.out.println("Sum: " + sum);  
        System.out.println("Difference: " + difference);  
        System.out.println("Product: " + product);  
        System.out.println("Quotient: " + quotient);  
        System.out.println("Remainder: " + remainder);  
    }  
}
```

Arithmetic Operators:

Sum: 15

Difference: 5

Product: 50

Quotient: 2

Remainder: 0

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```
public class OperatorExample {  
    public static void main(String[] args) {  
        // Assignment Operators  
        int num = 15;  
        num += 5;  
        num -= 3;  
        num *= 2;  
        num /= 4;  
  
        System.out.println("\nAssignment Operators:");  
        System.out.println("Value of num: " + num);  
    }  
}
```

```
java -cp /tmp/E0tSKPs4gy OperatorExam  
Assignment Operators:Value of num: 8
```

```

public static void main(String[] args) {
    // Relational Operators
    int x = 10;
    int y = 15;

    boolean isEqual = x == y;
    boolean isNotEqual = x != y;
    boolean isGreater = x > y;
    boolean isLess = x < y;
    boolean isGreaterOrEqual = x >= y;
    boolean isLessOrEqual = x <= y;

    System.out.println("\nRelational Operators:");
    System.out.println("isEqual: " + isEqual);
    System.out.println("isNotEqual: " + isNotEqual);
    System.out.println("isGreater: " + isGreater);
    System.out.println("isLess: " + isLess);
    System.out.println("isGreaterOrEqual: " +
        isGreaterOrEqual);
    System.out.println("isLessOrEqual: " + isLessOrEqual);
}

```

```

^ java -cp /tmp/E0tSkPs4gy OperatorExample
Relational Operators:
isEqual: false
isNotEqual: true
isGreater: false
isLess: true isGreaterOrEqual: false
isLessOrEqual: true

```

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```
public class OperatorExample {  
    public static void main(String[] args) {  
        // Logical Operators  
        boolean p = true;  
        boolean q = false;  
  
        boolean logicalAnd = p && q;  
        boolean logicalOr = p || q;  
        boolean logicalNotP = !p;  
        boolean logicalNotQ = !q;  
  
        System.out.println("\nLogical Operators:");  
        System.out.println("logicalAnd: " + logicalAnd);  
        System.out.println("logicalOr: " + logicalOr);  
        System.out.println("logicalNotP: " + logicalNotP);  
        System.out.println("logicalNotQ: " + logicalNotQ);  
    }  
}
```

```
java -cp /tmp/E0tSkPs4gy OperatorExample  
Logical Operators:  
logicalAnd: falselogicalOr: true  
logicalNotP: false  
logicalNotQ: true
```

```

└─ java -cp /tmp/HkFmV38Vhe Hell
    Bitwise Operators:
    bitwiseAnd: 1
    bitwiseOr: 7
    bitwiseXor: 6
    bitwiseComplement: -6
    leftShift: 20
    rightShift: 2

```

▼

```

class HelloWorld {
    public static void main(String[] args) {

// Example 1: Autoboxing
        int primitiveInt = 42;
        Integer wrapperInt = primitiveInt; // Autoboxing

        System.out.println("Primitive int: " + primitiveInt);
        System.out.println("Wrapper Integer: " + wrapperInt);

// Example 2: Unboxing
        Double wrapperDouble = 3.14;
        double primitiveDouble = wrapperDouble; // Unboxing

        System.out.println("Wrapper Double: " + wrapperDouble);
        System.out.println("Primitive double: " +
            primitiveDouble);
    }
}

```

```

java -cp . HelloWorld
Primitive int: 42Wrapper Integer: 42Wrapper Double: 3.14
Primitive double: 3.14

```

online

```
class HelloWorld {  
    public static void main(String[] args) {  
        // Example 3: Converting from String to primitive type  
        // using wrapper class  
        String strNumber = "123";  
        int convertedInt = Integer.parseInt(strNumber);  
  
        System.out.println("Converted int: " + convertedInt);  
  
        // Example 4: Converting from primitive type to String  
        // using wrapper class  
        double doubleValue = 3.14159;  
        String convertedString = Double.toString(doubleValue);  
  
        System.out.println("Converted string: " +  
            convertedString);  
    }  
}
```

```
java -cp /tmp/HKFmV38Vhe HelloWorld  
Converted int: 123Converted string: 3.14159
```

Snipping Tool

Screenshot copied to
Select here to mark

```
// Online Java Compiler
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online

class HelloWorld {
    public static void main(String[] args) {int number = 10;

        // Left shift operator (<<)
        int leftShiftResult = number << 2;
        System.out.println("Left shift result: " +
            leftShiftResult);

        // Right shift operator (>>)
        int rightShiftResult = number >> 2;
        System.out.println("Right shift result: " +
            rightShiftResult);

    }
}
```

```
java -cp /tmp/HkFmV38Vhe HelloWorld
Left shift result: 40Right shift result: 2
```