Typecasting

1. Widening or Automatic type conversion:
   In Java, automatic type conversion takes place when the two types are compatible and size of destination type is larger than source type.

2. Narrowing or Explicit type conversion:
   When we are assigning a larger type value to a variable of smaller type, then we need to perform explicit type casting.

   Example code:

```
public static void main(String[] args) {
        int i = 100;
        long l1 = i;                //automatic type casting

        double d = 100.04;
        long l2 = (long)d;          //explicit type casting
        System.out.println(i);
```

```
        System.out.println(l1);
        System.out.println(d);
        System.out.println(l2);
}
```

Output:
100
100
100.04
100

Operators

Arithmetic operators

Arithmetic operators are used in mathematical expression in the same way that are used in algebra.

OPERATOR	DESCRIPTION
+	Adds two operands
-	Subtracts second operand from first
*	Multiplies two operands
/	Divides numerator by denominator
%	Calculates Remainder of division