## **Java Type Casting**

Type casting is when we assign a value of one primitive data type to another type.

In Java, there are two types of casting:

- Widening Casting (automatically) converting a smaller type to a larger type size byte short -> char -> int -> long -> float -> double
- Narrowing Casting (manually) converting a larger type to a smaller size type double > float -> long -> int -> char -> short -> byte

## **Widening Casting**

Widening casting is done automatically when passing a smaller size type to a larger size type:

```
public class Main {
  public static void main(String[] args) {
    int myInt = 9;
    double myDouble = myInt; // Automatic casting: int to dou

    System.out.println(myInt); // Outputs 9
    System.out.println(myDouble); // Outputs 9.0
  }
}
```

## **Narrowing Casting**

Narrowing casting must be done manually by placing the type in parentheses in front of the value:

```
public class Main {
  public static void main(String[] args) {
    double myDouble = 9.78d;
    int myInt = (int) myDouble; // Manual casting: double to

    System.out.println(myDouble); // Outputs 9.78
    System.out.println(myInt); // Outputs 9
```

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}

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