

Type Casting

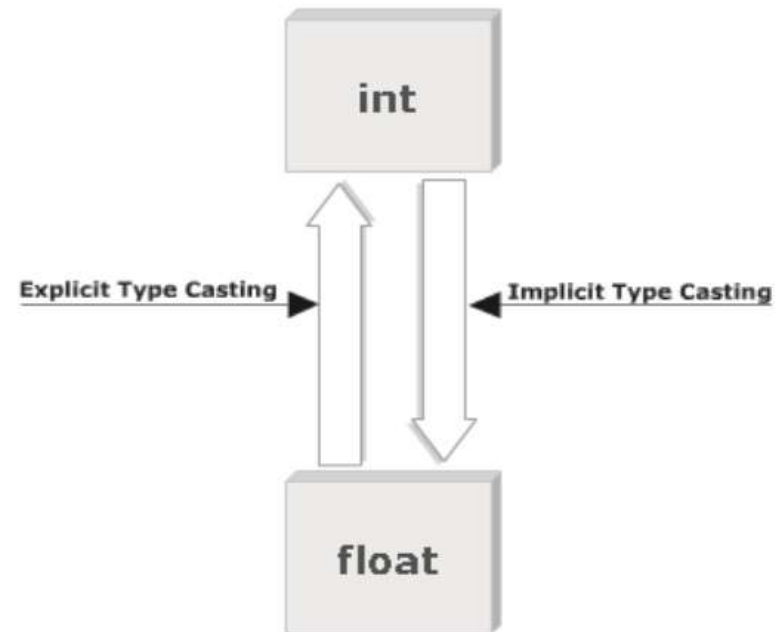
- The process of converting one type of data into another type is called Typecasting.
- There are two types of casting.

1. Primitive Type Casting:

- Widening(Implicit)
- Narrowing(Explicit)

2. Non Primitive Type Casting:

- UpCasting(Implicit)
- DownCasting(Explicit)



Primitive Type Casting

- The process of converting one primitive value into another primitive value is known as primitive type casting.

➤ Widening:

- The process of converting smaller range of primitive data type into larger range data type is called widening.
- In widening process there is no data loss.
- Since, there is no data loss, compiler can implicitly do widening hence it is also known as **auto widening**.



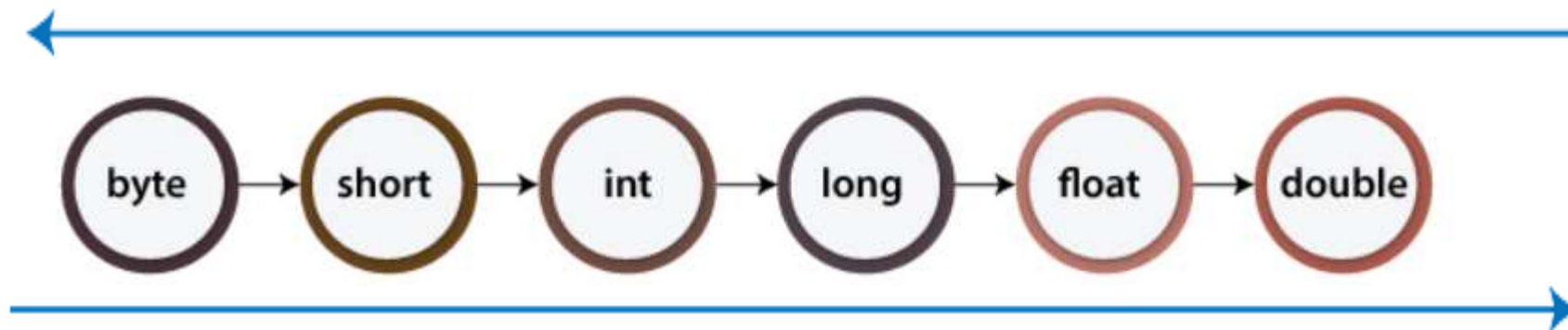
Narrowing

- The process of converting larger range of primitive data type into smaller range of primitive data type is known as Narrowing.
- In Narrowing there is possibility of data loss.
- Since there is a possibility of data loss, compiler does not do narrowing implicitly.
- It can be done explicitly by the programmer with the help of type cast operator.

□ Typecast Operator:

- It is a unary operator(only one operand).
- Typecast operator is used explicitly to convert one data type to another data type.

Narrowing Type Casting



Widening Type Casting

Type Casting in Java