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## Type Casting in Java

## **=> Data Types More Interview Questions :-**

### **1. What is ADT (Abstract Data Type) :-**

-> ADT is a type (or class) which holds the different types of objects with some specifications

-> The definition of ADT only mentions what operations are to be performed but not how these operations implemented

-> For examples : Stack ADT, List ADT, Queue ADT etc

### **2. Why java is not purely OOP's Language :-**

-> Java is not purely OOP's Language because:-

1. Usage of Primitive Data Types
2. Usage of Static members

### 3. How primitive variables passed to methods - by value or by reference :-

-> Java supports only pass by value

### 4. What is type casting ?

### 5. What are different types of Type-Casting in java ?

-> There are 2 types of Type-Casting in Java :-

#### 1. "Primitive Data Type" Type Casting

1.1 Widening Type Casting (Implicit Type Casting)

1.2 Narrowing Type Casting (Explicit Type Casting)

#### 2. "User Defined Data Type" Type Casting

## 6. What is Type Checking & Type Casting ?

-> Type Checking : Type Checking is the responsibility of compiler. It checks whether the syntax is correct or not and whether we are assigning lower data type to higher data type.

-> Type Casting : Type Casting is the responsibility of JVM. In this phase lower data type (for eg byte) will convert into higher data type (for eg int) and the value will be copied in higher data type

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### => Type Casting :-

-> The process of converting the data from one data type to another data type is known as type casting

-> There are 2 types of Type-Casting in Java :-

1. "Primitive Data Type" Type Casting

1.1 Widening Type Casting (Implicit Type Casting)

1.2 Narrowing Type Casting (Explicit Type Casting)

2. "User Defined Data Type" Type Casting

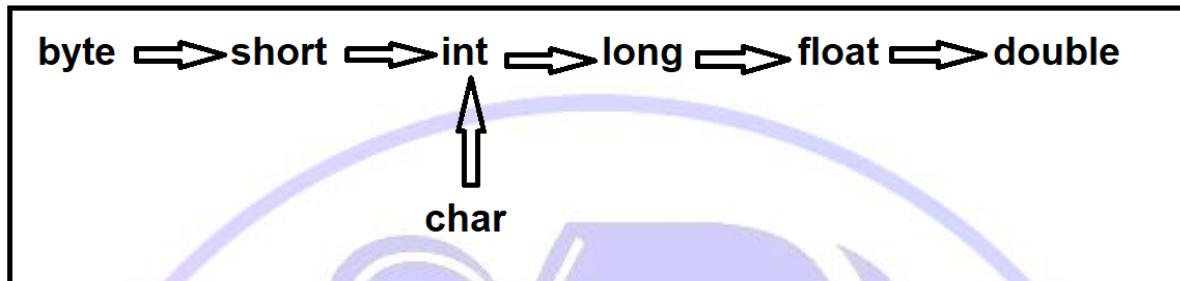
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1. "Primitive Data Type" Type Casting

1.1 Widening Type Casting (Implicit Type Casting)

-> It is the process of converting data from lower data type to higher data type





Implicit Type Casting (Widening Type Casting)

## 1.2 Narrowing Type Casting (Explicit Type Casting)

-> In this case we convert higher data type into lower data type

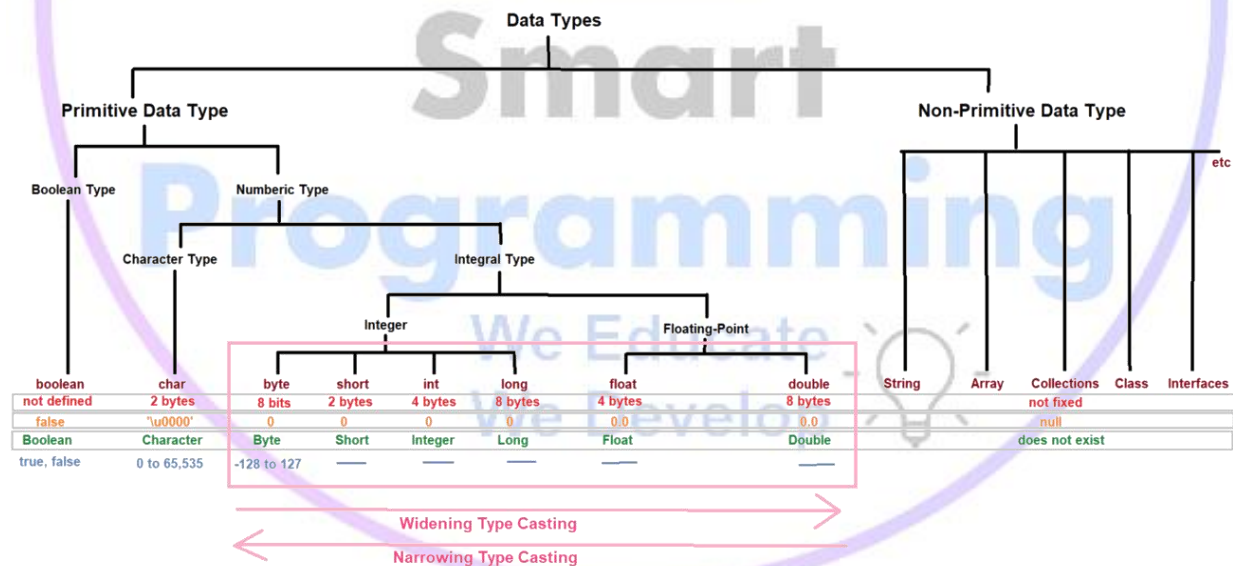
-> Narrowing Type Casting can be achieved by using "cast operator"

=> Note : no1 & no2 , result

no1 + no2 = result

1. If no1 & no2 is byte, short or int then result will be always in int

2. If no1 & no2 is long, float, double etc then result will be in higher data type



## **2. "User Defined Data Type" Type Casting :-**

-> It is the process of converting data from one user defined data type to another user defined data type

-> For "user defined data type" type casting, both data types should have relation (either extends or implements)





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