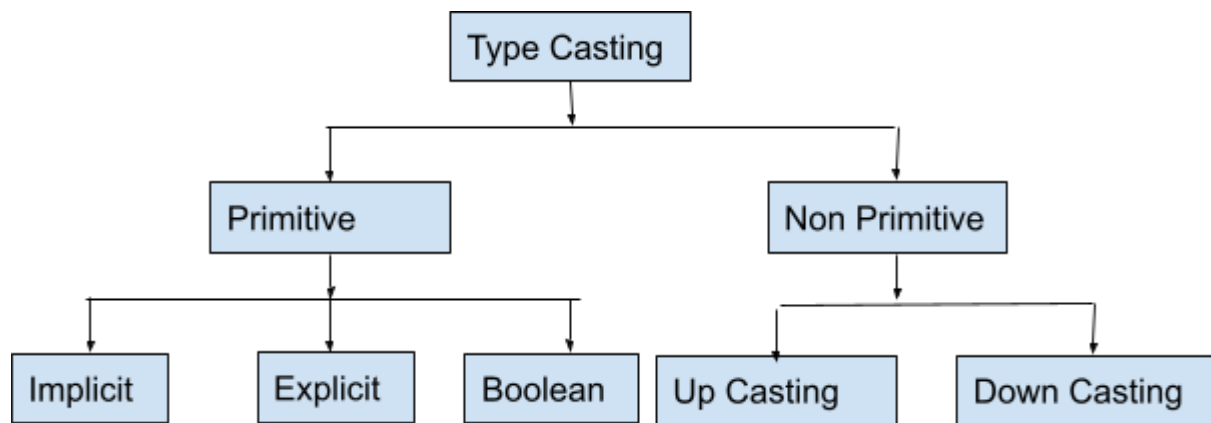


Type Casting

=====

In casting programmer can convert one type of information into another type of information, there are two basic types of casting



1. Primitive Casting

- In primitive casting one datatype of information is converted into another data type of information
- It is related to variables which are further divided into three types
- Implicit, Explicit and Boolean type.

a. Implicit Casting / widening casting

- In Implicit casting, lower data type of information is converted into higher data type of information.
byte -> short -> char -> int -> long -> float -> double
- Syntax

```
int a = 10;           // integer type of data type
double x = a;         // converted into float type of data type
```

b. Explicit Casting / narrowing casting

- In Explicit casting, higher data type of information is converted into lower data type of information.
double -> float -> long -> int -> char -> short -> byte
- Syntax
double d = 10.3; // double type of data type
int y = (int)d; // converted into integer type of data type

c. Boolean Casting >> it is not supported in java

E.x

```
public class Variables
```

```
{
```

```
    static int a = 15;
```

```
    static double d = a;           // implicit casting
```

```
    static double b = 25.21;
```

```
    static int i = (int)b;         // explicit casting
```

```
    public static void main(String[] args)
```

```
    {
```

```
        System.out.println("Before casting" + " " + a);
```

```
        System.out.println("After casting" + " " + d);
```

```
        System.out.println("Before casting" + " " + b);
```

```
        System.out.println("After casting" + " " + i);
```

```
    }
```

```
}
```

Output >

Before casting 15

After casting 15.0

Before casting 25.21

After casting 25