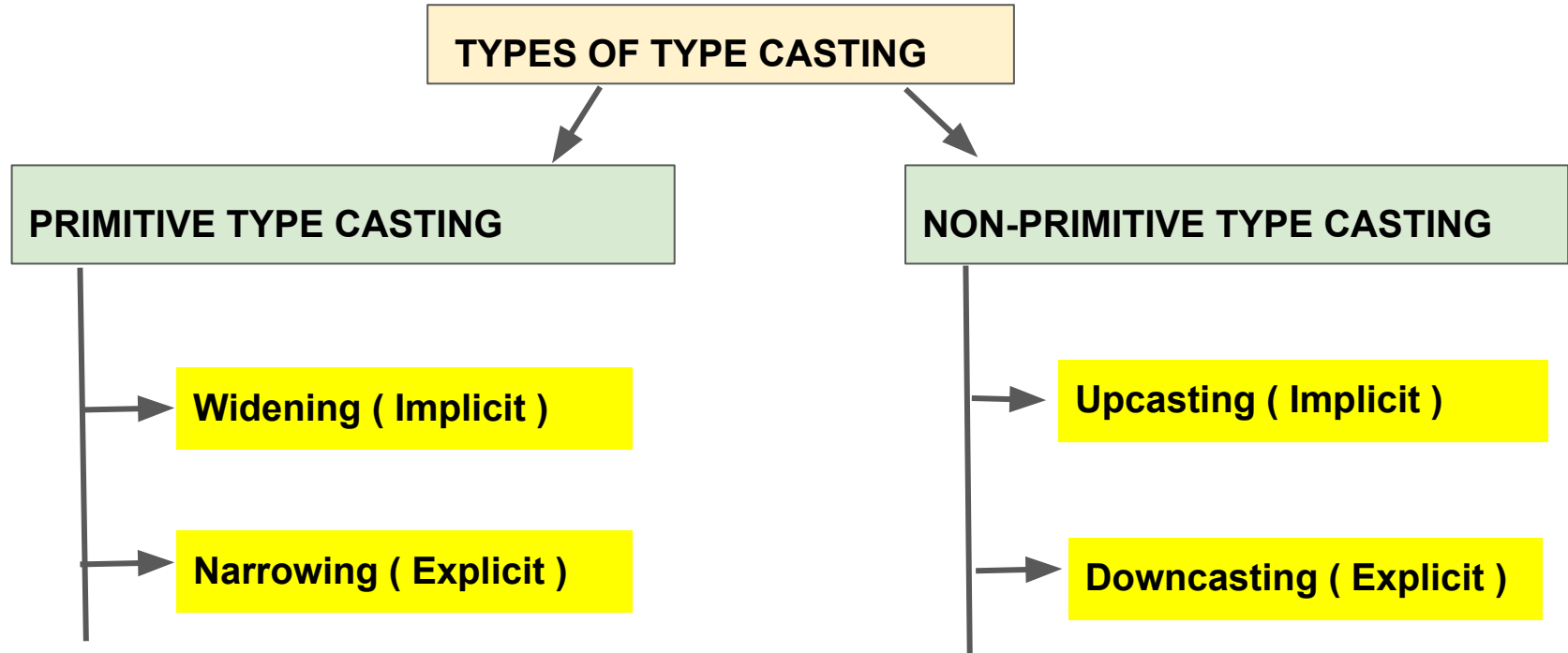


TYPE CASTING:

The process of converting one type of data into another type is known as “Type casting”.



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 of primitive data type is called “Widening”.
- ❑ In widening process there is no data loss.
- ❑ Since there is no data loss, compiler can implicitly perform 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 process there is a possibility of data loss.
- ❑ Since there is a possibility of data loss, compiler does not perform 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).
- ❑ Type cast operator is used to explicitly convert one datatype into another data type.

Example:-

```
a. double d=0.0987654d;  
   float f=(float) d;  
   System.out.println(f);
```

OUTPUT:-
0.0987654

```
b. int s=78;  
   char t=(char) s;  
   System.out.println(t);
```

OUTPUT:-
N

Hierarchy of Data types

byte < short < int < long < float < double

Note:- The number data type in increasing order of the capacity.