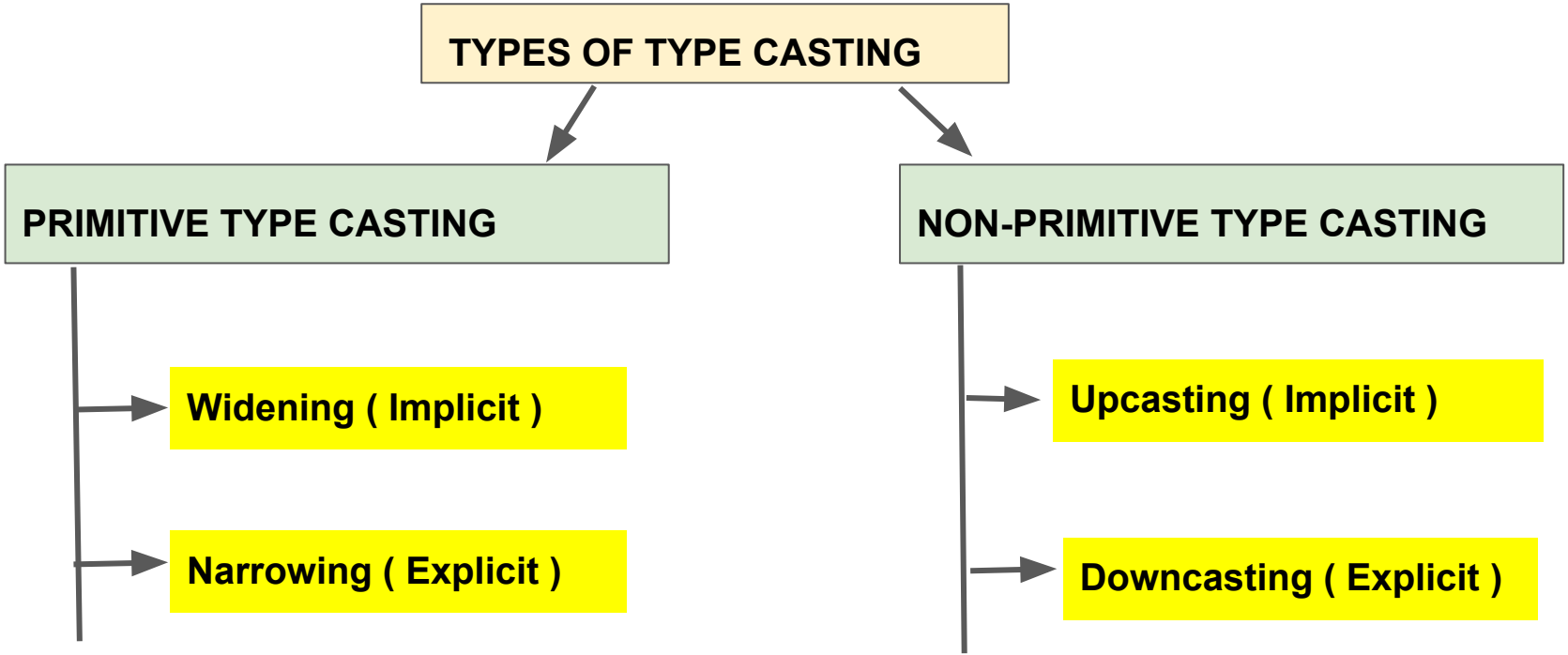
TYPE CASTING:

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.