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Type Casting

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Overview

Type casting is the act of changing a variable or other entity to another data type (int, float, double, etc.)

Tutorial

Widening Casting

Widening casting is done automatically when passing a smaller size type to a larger size type

```
byte -> short -> char -> int -> long -> float -> double
```

In the above table you may cast any data type into any other to the right of it.

For example; a byte may be cast into a long, but a double may not *automatically* cast into an int:

```
public class MyClass {
    public static void main(String[] args) {
        int myInt = 9;
        double myDouble = myInt;
    }
}
```

In the above example java automatically converts the variable 'myInt' to a double data type.

Narrowing Casting

Narrowing casting must be done manually by placing the type in parentheses in front of the value:

```
double -> float -> long -> int -> char -> short -> byte
```

```
public class MyClass {
    public static void main(String[] args) {
        double myDouble = 9.78;
        int myInt = (int) myDouble;
    }
}
```

Any incompatible data is truncated, in the above example the value of myInt = 9.

Exercises

There are no exercise for this module.

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