Casting Homework

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**What are the types of casting in Java?**

There are 2 types of casting in Java

1. Implicit casting (automate casting by compiler. The implicit casting is performed when assigning a smaller data type value to a bigger data type variable.)

2. Explicit casting (Done by us manually. The explicit casting is performed when assigning a bigger data type value to a smaller data type variable.)

**What is implicit and explicit casting? Explain with examples.**

1)The implicit casting is also known as widening assignment or upcasting.

Example:

byte number1 = 45;

int number2 = number1;

1. The explicit casting is also known as narrowing assignment or down-casting.

Example:

double d1 = 100.00;

float f1 = (float) d1;

**What are autoboxing and unboxing in Java?**

Autoboxing is known as storing primitive type into an object/wrapper class

int num1 = 45:

Integer num2 = num1;

Unboxing is known as storing object/wrapper class into primitive

Character character1 = ‘t’; //object  
       char character2 = character1; //primitive

**What are wrapper classes in Java and what advantages do they provide?**

Wrapper classes are object representation of primitives.

For each primitive type, there is Wrapper class.

Wrapper class names are usually same as with primitive data types but starts with upper case.

Wrapper classes can do everything that their primitives do and they also provide many useful methods to manipulate data.