Long Wrapper

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- The Long class wraps a long primitive value as a Long object.
- Long wrapper provides many API's for processing and transforming the long data.

Illustration 1: Converting a String to a Long Wrapper

Long empld= new Long("12345")

Illustration 2: Converting a long primitive to a Long Wrapper.

Long empld = new Long(12345l);

Converts a long primitive to Long.



Float Wrapper

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- The Float class wraps a primitive float value in an object.
- This class similar to Integer wrapper provides many API's for processing/transformation.

Tan
$$60^{\circ} = 1.732$$

Try it out – Float Wrapper

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- 1. Create a java class "FloatExample" in "com.demo.wrapper" package.
- Create a main method and create two Float objects "num1" and "num2" with values 18.25f and 12.65f. Implement the following logic,

Problem 1: Compares two float variables and displays the maximum value.

Output: "The<value> is bigger than <value>"

Problem 2: Converts a String value of "4321" to a float value and add 13.45f

Output: The string should be converted into a float incremented to 13.45 and display the result.

Problem 3: Checks if the specified float value num1 is a number or not.

Output: If the number is not a number display the message "This is not a Number" else "This is a Number"

Double Wrapper

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- The Double class wraps primitive type double in an object.
- This class similar to other wrapper provides many API's for processing/transformation.

Double is similar to a float, the difference is the size double is 64 bits and float is 32 bits.

Where do we use it?

This is used for storing currency values.

Tax = 2020.60

Byte Wrapper

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- · The Byte class wraps a byte primitive value to an object.
- This class similar to other wrapper provides many API's for processing/transformation.

Where do we use it?

This is used to store numbers ranging between -128 and 127.

Illustration 1 : String to a Byte Wrapper

Byte id = new Byte("23")

Illustration 2 : Primitive to a Byte Wrapper

Byte id = new Byte(23)



Boolean Wrapper

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The Boolean class wraps a value of the primitive type boolean in an object.

This class similar to other wrapper provides many API's for processing/transformation.

Illustration 1: String to a Boolean Wrapper

Boolean status = new Boolean("true")

Converts a Boolean primitive to wrapper

Illustration 2: Boolean primitive to a Boolean Wrapper

Boolean status = new Boolean(false);

Auto Boxing

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Autoboxing is a technique introduced in Java 1.5. It is a feature where a primitive is automatically converted to a wrapper.

Example:

Double d = 100.00

Few More examples:

- Integer d= 100
- Boolean b = false
- Long | = 100|
- Char c = 'c'



Unboxing

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Unboxing is a feature where a wrapper is automatically converted to a primitive.

Example:

Double d1 = new Double(100.00); double d = d1;

Few More examples:

- Integer I = new Integer(100)
 int d= i
- Boolean b = new Boolean(false)
 Boolean f = b

