Package BuildingCentreReceipt

Class Tool

java.lang.Object
    BuildingCentreReceipt.BuildingCentreProductBase
        BuildingCentreReceipt.Tool

All Implemented Interfaces:
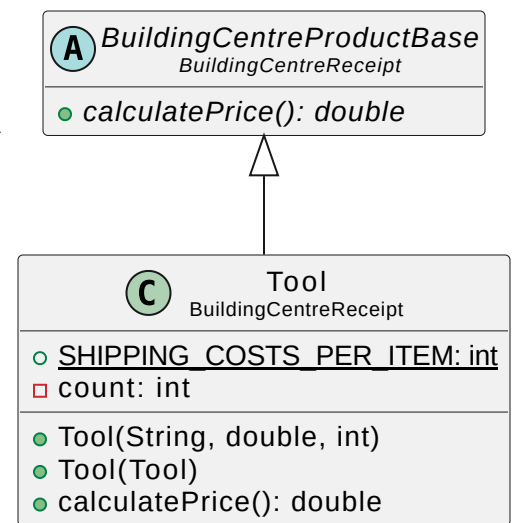
java.lang.Comparable<BuildingCentreProductBase>

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public class **Tool**
extends BuildingCentreProductBase

A number of tools as physical objects which can be purchased
as products in the building centre.
This class represents one or more items of a specific tool.
Tools are shipped at fixed shipping costs of 10 EUR per item.


```
A  BuildingCentreProductBase
   BuildingCentreReceipt
● calculatePrice(): double
```

```
C  Tool
   BuildingCentreReceipt
○ SHIPPING_COSTS_PER_ITEM: int
□ count: int
● Tool(String, double, int)
● Tool(Tool)
● calculatePrice(): double
```

UMLDoclet 2.1.0, PlantUML 1.2022.14

Field Summary

Fields

Modifier and Type	Field	Description
private int	**count**	the number of items
static int	**SHIPPING_COSTS_PER_ITEM**	The shipping costs of 10 EUR per item.

**Fields declared in
class BuildingCentreReceipt.BuildingCentreProductBase**

name, price

Constructors

Constructor	Description
Tool(**Tool** orig)	copy constructor calls the super constructor
Tool(java.lang.String toolName, double price, int count)	Constructs a specified number of tools with a specified price and name.

Method Summary

All Methods	Instance Methods	Concrete Methods

Modifier and Type	Method	Description
double	**calculatePrice**()	calculate the price of this tools as count times price per item.
java.lang.String	**toString**()	String representation of this tool. The string representation includes toolname, price per unit, total price count and shippingcosts.

Methods declared in class BuildingCentreReceipt.**BuildingCentreProductBase**

compareTo, getName, getPricePerUnit, price

Methods declared in class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

SHIPPING_COSTS_PER_ITEM

Constant Field Values

count

```
private int count
```

the number of items

Constructor Detail

Tool

```
public Tool(java.lang.String toolName,
            double price,
            int count)
```

Constructs a specified number of tools with a specified price and name.

Parameters:

toolName - the name of this tool

price - the price per unit of this tool

count - the number of tools

Tool

```
public Tool(Tool orig)
```

copy constructor
calls the super constructor

Parameters:

orig - the tool to copy

Hint:

Method Detail

calculatePrice

public double calculatePrice()

calculate the price of this tools as count times price per item.

Specified by:

calculatePrice in class BuildingCentreProductBase

Returns:

the price of this product in euro (EUR)

toString

public java.lang.String toString()

String representation of this tool.
The string representation includes toolname, price per unit, total price count and shippingcosts.

Overrides:

toString in class BuildingCentreProductBase