Class Item

java.lang.Object
    Item

All Implemented Interfaces:

Borrowable

Direct Known Subclasses:

Book, Dvd

```
public class Item
extends Object
implements Borrowable
```

This is a simple item class for books and DVDs.

Constructor Summary

Constructors

Constructor	Description
Item()	The null item object.
Item(String type, int id, String title, boolean borrowed)	Parameterized constructor to initialize a Item object with given values for id, type, title, year, borrowed.

Method Summary

All Methods   **Instance Methods**   **Concrete Methods**

Modifier and Type	Method	Description
void	borrow()	This method can be used to borrow a book that is currently in the available position.
void	changeTitle(String newTitle)	Method to change the title of the item.
void	changeType(String newType)	Method to change the type of the item.
void	checkItem(Object obj)	Method to check the availability of the item.
Item	clone()	This method creates a deep copy of this object.
void	compareBorrow(Object obj)	Method to check the availability of the item.

void	compareReturn(Object obj)	Method to return the item.
boolean	equals(Object obj)	Method to compare the id of the Item object.
boolean	getBorrowed()	Method to return the flag to check the item is borrowed or not.
int	getId()	Method to return the id of the item.
String	getTitle()	Method to return the title of the item.
String	getType()	Method to return the type of the item.
void	isAvailable()	This method can be used to check the availability of a book.
void	isUnavailable()	This method can be used to check the unavailability of a book.
void	printInfo()	Method to print the information of the book
void	returnItem()	This method can be used to return a book that is currently unavailable.
String	toString()	Method to show how to print inside the test file.

Methods inherited from class java.lang.Object

getClass , hashCode , notify , notifyAll , wait , wait , wait

Constructor Details

Item

public Item()

The null item object.

Item

```
public Item(String  type,
            int id,
            String  title,
            boolean borrowed)
```

Parameterized constructor to initialize a Item object with given values for id, type, title, year, borrowed.

Parameters:

`id` - The id of the item.

`type` - The type of the item.

`title` - The title of the tiem.

`borrowed` - The flag to check whether this item is borrowed or not.

Method Details

getId

```
public int getId()
```

Method to return the id of the item.

Returns:

a integer value.

getType

```
public String  getType()
```

Method to return the type of the item.

Returns:

a string value.

getTitle

```
public String  getTitle()
```

Method to return the title of the item.

Returns:

a string value.

changeType

```
public void changeType(String  newType)
```

Method to change the type of the item.

Parameters:

`newType` - The name of new type

changeTitle

`public void changeTitle(String  newTitle)`

Method to change the title of the item.

Parameters:

`newTitle` - The name of the new title.

getBorrowed

`public boolean getBorrowed()`

Method to return the flag to check the item is borrowed or not.

Returns:

a boolean value.

checkItem

`public void checkItem(Object  obj)`

Method to check the availability of the item.

Parameters:

`obj` - The object to compare.

compareBorrow

`public void compareBorrow(Object  obj)`

Method to check the availability of the item.

Parameters:

`obj` - The object to compare.

compareReturn

`public void compareReturn(Object  obj)`

Method to return the item.

Parameters:

`obj` - the object to compare.

clone

```
public Item clone()
```

This method creates a deep copy of this object.

Returns:

a deep copy of this object.

toString

```
public String  toString()
```

Method to show how to print inside the test file.

Overrides:

toString   in class Object

Returns:

a string value.

borrow

```
public void borrow()
```

Description copied from interface: Borrowable

This method can be used to borrow a book that is currently in the available position. Calling this method to borrow a book that is already been borrowed has no impact.

Specified by:

borrow in interface Borrowable

returnItem

```
public void returnItem()
```

Description copied from interface: Borrowable

This method can be used to return a book that is currently unavailable. Calling this method to return a book that is already unavailable has no impact.

Specified by:

returnItem in interface Borrowable

isAvailable

```
public void isAvailable()
```

Description copied from interface: Borrowable

This method can be used to check the availability of a book. Calling this method when a book is already unavailable or available has no impact.

Specified by:

isAvailable in interface Borrowable

isUnavailable

```
public void isUnavailable()
```

Description copied from interface: Borrowable

This method can be used to check the unavailability of a book. Calling this method when a book is already unavailable or available has no impact.

Specified by:

isUnavailable in interface Borrowable

equals

```
public boolean equals(Object  obj)
```

Method to compare the id of the Item object.

Overrides:

equals in class Object

printInfo

```
public void printInfo()
```

Method to print the information of the book