

Extension.BackEnd

Class Exercise

```
java.lang.Object
└─ Extension.BackEnd.Exercise
```

```
public class Exercise
extends java.lang.Object
```

An Exercise object holds all the needed information related to the exercise.

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Method Summary

java.lang.String	execute() Runs this exercises JUnit test with the code within the users exercise project.
java.lang.String	getDescription() Used to access the description of this exercise.
java.util.List<java.lang.String>	getExample() Used to access the examples list of this exercise.
java.lang.String	getHint() Used to access the hint of this exercise.
java.lang.String	getJavaCode() Returns the Java code for the exercise file of this exercise.
java.lang.String	getJavaName() Returns the name of the Java file for this exercise.
java.lang.String	getJUnitCode() Returns the Java code of the JUnit file associated with this exercise.
java.lang.String	getJUnitName() Returns the name of the JUnit Java file for this exercise.
java.lang.String	getSampleAnswer() Used to access the sample answer of this exercise.
java.lang.String	getTitle() Used to access the title of this exercise.
void	launch() Launches this exercise by setting up the JUnit test and user project.
void	printExercise() Prints the various data that composes this exercise
void	setDescription (java.lang.String description) Used to set the description of this exercise.
void	setExample (java.util.List<java.lang.String> example)

	Used to set the example list of this exercise.
void	<code>setExampleList(java.util.List<java.lang.String> exampleList)</code> Sets the list of examples for this exercise.
void	<code>setHint(java.lang.String hint)</code> Used to set the hint of this exercise.
void	<code>setJavaCode(java.lang.String javaCode)</code> Sets the Java code of the exercise file of this exercise.
void	<code>setJavaName(java.lang.String javaName)</code> Sets the Java file name for this exercise.
void	<code>setJUnitCode(java.lang.String junitCode)</code> Sets the Java code of the JUnit file associated with this exercise.
void	<code>setJUnitName(java.lang.String junitName)</code> Sets the name of the JUnit Java file associated with this exercise.
void	<code>setSampleAnswer(java.lang.String sampleAnswer)</code> Used to set the sample answer of this exercise.
void	<code>setTitle(java.lang.String title)</code> Used to set the title of this exercise.
java.lang.String	<code>toString()</code> Used primarily to populate the Observable list in the Exercise List GUI with the titles of the exercises

Methods inherited from class java.lang.Object

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

Method Detail

execute

```
public java.lang.String execute()
```

Runs this exercises JUnit test with the code within the users exercise project. This will do this using BlueJ's user VM feature.

Returns:

the results of this exercise.

getDescription

```
public java.lang.String getDescription()
```

Used to access the description of this exercise.

Returns:

the description of this exercise

getExample

```
public java.util.List<java.lang.String> getExample()
```

Used to access the examples list of this exercise.

Returns:

the List of examples

getHint

```
public java.lang.String getHint()
```

Used to access the hint of this exercise.

Returns:

the hint of this exercise

getJavaCode

```
public java.lang.String getJavaCode()
```

Returns the Java code for the exercise file of this exercise.

Returns:

the Java code

getJavaName

```
public java.lang.String getJavaName()
```

Returns the name of the Java file for this exercise.

Returns:

the name of the Java file

getJUnitCode

```
public java.lang.String getJUnitCode()
```

Returns the Java code of the JUnit file associated with this exercise.

Returns:

the Java code for the JUnit file

getJUnitName

```
public java.lang.String getJUnitName()
```

Returns the name of the JUnit Java file for this exercise.

Returns:

the name of the JUnit Java file

getSampleAnswer

```
public java.lang.String getSampleAnswer()
```

Used to access the sample answer of this exercise.

Returns:

the sample answer of this exercise

getTitle

```
public java.lang.String getTitle()
```

Used to access the title of this exercise.

Returns:

the title of this exercise

launch

```
public void launch()
```

Launches this exercise by setting up the JUnit test and user project.

printExercise

```
public void printExercise()
```

Prints the various data that composes this exercise

setDescription

```
public void setDescription(java.lang.String description)
```

Used to set the description of this exercise.

Parameters:

description - the description

setExample

```
public void setExample(java.util.List<java.lang.String> example)
```

Used to set the example list of this exercise.

Parameters:

example - the example List

setExampleList

```
public void setExampleList(java.util.List<java.lang.String> exampleList)
```

Sets the list of examples for this exercise.

Parameters:

exampleList - the List of examples

setHint

```
public void setHint(java.lang.String hint)
```

Used to set the hint of this exercise.

Parameters:

`hint` - the hint

setJavaCode

```
public void setJavaCode(java.lang.String javaCode)
```

Sets the Java code of the exercise file of this exercise.

Parameters:

`javaCode` - the Java code

setJavaName

```
public void setJavaName(java.lang.String javaName)
```

Sets the Java file name for this exercise.

Parameters:

`the` - name of the Java file

setJUnitCode

```
public void setJUnitCode(java.lang.String junitCode)
```

Sets the Java code of the JUnit file associated with this exercise.

Parameters:

`junitCode` - the Java code for the JUnit file

setJUnitName

```
public void setJUnitName(java.lang.String junitName)
```

Sets the name of the JUnit Java file associated with this exercise.

Parameters:

`the` - name of the JUnit Java file

setSampleAnswer

```
public void setSampleAnswer(java.lang.String sampleAnswer)
```

Used to set the sample answer of this exercise.

Parameters:

`sampleAnswer` - the sample answer

setTitle

```
public void setTitle(java.lang.String title)
```

Used to set the title of this exercise.

Parameters:

title - the title

toString

```
public java.lang.String toString()
```

Used primarily to populate the Observable list in the Exercise List GUI with the titles of the exercises

Overrides:

toString in class java.lang.Object

Returns:

this exercise's title
