PREV CLASS NEXT CLASS

FRAMES NO FRAMES

**ALL CLASSES** 

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

iteration1

## Class CalculatorGui

java.lang.Object javafx.application.Application iteration1.CalculatorGui

public class CalculatorGui
extends javafx.application.Application

**Author:** 

Fadi Hariri

## **Nested Class Summary**

Nested classes/interfaces inherited from class javafx.application.Application

javafx.application.Application.Parameters

# Field Summary

Fields inherited from class javafx.application.Application

STYLESHEET\_CASPIAN, STYLESHEET\_MODENA

# **Constructor Summary**

**Constructors** 

**Constructor and Description** 

CalculatorGui()

# **Method Summary**

All Mctilous	Static Methods	mstance methods	Solicicie Methods			
Modifier and Typ	oe Method an	Method and Description				
static void	main(ja	<pre>main(java.lang.String[] args)</pre>				
void	start(j	avafx.stage.Stage	primarvStage)			

# Methods inherited from class javafx.application.Application

getHostServices, getParameters, getUserAgentStylesheet, init, launch,
launch, notifyPreloader, setUserAgentStylesheet, stop

# Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## **Constructor Detail**

## CalculatorGui

public CalculatorGui()

## **Method Detail**

#### main

public static void main(java.lang.String[] args)

#### start

#### Specified by:

start in class javafx.application.Application

### Throws:

java.lang.Exception

PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

**ALL CLASSES** 

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

iteration1

## **Class Calculator**

java.lang.Object iteration1.Calculator

public class Calculator
extends java.lang.Object

**Author:** 

Fadi Hariri

## **Constructor Summary**

### **Constructors**

**Constructor and Description** 

Calculator()

## **Method Summary**

All Methods Instance Methods

**Concrete Methods** 

Modifier and Type Method and Description

java.lang.String evalTokens(java.util.Queue<java.lang.String> tokens)

## Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## **Constructor Detail**

### Calculator

public Calculator()

## **Method Detail**

### evalTokens

public java.lang.String evalTokens(java.util.Queue<java.lang.String> tokens)

Parameters:

tokens - queue

Returns:

String output of evaluated expression

#### evaluate

public double evaluate()

Returns:

Value of expression after evaluating infixQueue

Throws:

IllegalExpressionException - if the expression is erroneuosly constructed.

PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

**ALL CLASSES** 

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

iteration1

# **Class Compute**

java.lang.Object iteration1.Compute

public class Compute extends java.lang.Object

#### **Author:**

Fadi Hariri, Maryna Kalachova, Nicholas Hillier, Navdeep Singh, Savithru Teja

## **Constructor Summary**

### Constructors

## **Constructor and Description**

## Compute()

Initialize the computation of pi and ln2 constants.

## **Method Summary**

All Methods	Instance Methods	Concrete Methods		
Modifier and Typ	e Method and D	escription		
double	factorial (	double val)		
double	log10 (douk	log10(double x)		
double	powerOfTer	<pre>powerOfTen(double x)</pre>		
double	powerOfX(	<pre>powerOfX(double x, double y)</pre>		
double	sin(double	<pre>sin(double angle)</pre>		
double	squareRoot	<pre>squareRoot(double x)</pre>		

# Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## **Constructor Detail**

## Compute

```
public Compute()
```

Initialize the computation of pi and ln2 constants.

## **Method Detail**

### powerOfTen

```
public double powerOfTen(double x)
```

#### Parameters:

x - a double

#### Returns:

double corresponding to 10^x

## squareRoot

```
public double squareRoot(double x)
```

#### Parameters:

x - a double

#### Returns:

double corresponding to \_/x

### powerOfX

### Parameters:

```
x - a double representing a base
```

y - a double representing a power

#### Returns:

double corresponding to x^y

## log10

public double log10(double x)

#### Parameters:

x - double representing a power

#### Returns:

double corresponding to log10(x)

### sin

public double sin(double angle)

#### Parameters:

angle - in degrees

#### Returns:

double corresponding to sin(angle). The method converts the angle to radians prior to computation.

#### factorial

public double factorial(double val)

**Factorial** 

#### Parameters:

val - a non-floating point double

#### Returns:

double Factorial of val.

## Throws:

StackOverFlow - exception with floating point input values.

PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD