DedSec Calculator 1.0

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# 5 Namespace Documentation

# 5.1 Package calculatorfx

#### Classes

class Controller

The controller of the calculator.

- interface IMath
- class MainCalculatorFX

Main class of the calculator launching the application.

• class Math

Class containing the methods of the math library.

· class StandartDeviation

Implementation of the SD, includes main.

## 5.1.1 Detailed Description

See also

Math.java

# 5.2 Package test

## Classes

class MathTest

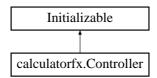
Class containing the tests.

## 6 Class Documentation

# 6.1 calculatorfx.Controller Class Reference

The controller of the calculator.

Inheritance diagram for calculatorfx. Controller:



#### **Public Member Functions**

• int getDigits (double num)

Method getDigits.

• void displayResult (double result)

Method displayResult.

· void initialize (URL url, ResourceBundle rb)

## **Package Functions**

- void showHelp (ActionEvent event)
- · void Calculation (ActionEvent event) throws Exception

## **Package Attributes**

- double result = 0
- double input1
- double input2
- int ps
- int point = 0
- int ispoint = 0
- int canneg = 0
- int emptydisplay = 1
- String oldvalue
- Math math = new Math()
- DecimalFormat td = new DecimalFormat("0.######")
- DecimalFormat ed = new DecimalFormat("0.######E0")

#### **Private Attributes**

- TextField operation
- TextField display
- Button one
- Button two
- · Button three
- Button four
- Button five
- Button six
- Button seven
- · Button eight
- Button nine
- Button zero
- Button dot
- · Button clear
- Button plus
- Button minus
- Button multiply
- Button divide
- Button fact
- Button power
- · Button squareroot
- · Button tobinary
- Button negate
- Button equal

#### 6.1.1 Detailed Description

The controller of the calculator.

Definition at line 30 of file Controller.java.

#### 6.1.2 Member Function Documentation

**6.1.2.1** void calculatorfx.Controller.Calculation ( ActionEvent event ) throws Exception [package]

Definition at line 201 of file Controller.java.

6.1.2.2 void calculatorfx.Controller.displayResult ( double result )

Method displayResult.

Method displayResult displays the result of mathematical operation onto display in decimal or scientific notation.

#### **Parameters**

result is the number to be displayed in normal or scientific notation

- < Number contains more than 16 digits and is displayed in scientific notation
- < Number contains less or equal to 16 digits and is displayed in normal notation

Definition at line 173 of file Controller.java.

6.1.2.3 int calculatorfx.Controller.getDigits ( double num )

Method getDigits.

Method getDigits counts the digits in number (decimal dot and minus included).

#### **Parameters**

num method counts the digits in this number

#### Returns

the number of digits (decimal dot and minus included)

- < Number includes a minus
- < Number has a decimal part thus includes a decimal dot
- < Integer part is zero thus counting will be incorrect
- < Some number needs to be added to integer part

```
< Number needs to be shifted left so the decimal part will be in integer part
< Number has max 8 decimal digits
< Number is shifted right and digits are counted
Definition at line 126 of file Controller.java.
6.1.2.4 void calculatorfx.Controller.initialize ( URL url, ResourceBundle rb )
Definition at line 501 of file Controller.java.
6.1.2.5 void calculatorfx.Controller.showHelp ( ActionEvent event ) [package]
Definition at line 184 of file Controller.java.
6.1.3 Member Data Documentation
6.1.3.1 int calculatorfx.Controller.canneg = 0 [package]
Flag which enables the negate operation (0 when enabled)
Definition at line 110 of file Controller.java.
6.1.3.2 Button calculatorfx.Controller.clear [private]
Definition at line 72 of file Controller.java.
6.1.3.3 TextField calculatorfx.Controller.display [private]
Definition at line 36 of file Controller.java.
6.1.3.4 Button calculatorfx.Controller.divide [private]
Definition at line 84 of file Controller.java.
6.1.3.5 Button calculatorfx.Controller.dot [private]
Definition at line 69 of file Controller.java.
6.1.3.6 DecimalFormat calculatorfx.Controller.ed = new DecimalFormat("0.#######E0") [package]
Format for scientific notation of a number
Definition at line 117 of file Controller.java.
6.1.3.7 Button calculatorfx.Controller.eight [private]
Definition at line 60 of file Controller.java.
```

```
6.1.3.8 int calculatorfx.Controller.emptydisplay = 1 [package]
Flag which indicates that a display is empty (1 when display is empty)
Definition at line 111 of file Controller.java.
6.1.3.9 Button calculatorfx.Controller.equal [private]
Definition at line 102 of file Controller.java.
6.1.3.10 Button calculatorfx.Controller.fact [private]
Definition at line 87 of file Controller.java.
6.1.3.11 Button calculatorfx.Controller.five [private]
Definition at line 51 of file Controller.java.
6.1.3.12 Button calculatorfx.Controller.four [private]
Definition at line 48 of file Controller.java.
6.1.3.13 double calculatorfx.Controller.input1 [package]
Definition at line 105 of file Controller.java.
6.1.3.14 double calculatorfx.Controller.input2 [package]
Definition at line 106 of file Controller.java.
6.1.3.15 int calculatorfx.Controller.ispoint = 0 [package]
Flag which indicates that a dot was typed or generated by operation (1 when true)
Definition at line 109 of file Controller.java.
6.1.3.16 Math calculatorfx.Controller.math = new Math() [package]
Definition at line 115 of file Controller.java.
6.1.3.17 Button calculatorfx.Controller.minus [private]
Definition at line 78 of file Controller.java.
6.1.3.18 Button calculatorfx.Controller.multiply [private]
Definition at line 81 of file Controller.java.
```

```
6.1.3.19 Button calculatorfx.Controller.negate [private]
Definition at line 99 of file Controller.java.
6.1.3.20 Button calculatorfx.Controller.nine [private]
Definition at line 63 of file Controller.java.
6.1.3.21 String calculatorfx.Controller.oldvalue [package]
This String is used to store info about operation and input number. These are than displayed onto operation display.
Definition at line 113 of file Controller.java.
6.1.3.22 Button calculatorfx.Controller.one [private]
Definition at line 39 of file Controller.java.
6.1.3.23 TextField calculatorfx.Controller.operation [private]
Definition at line 33 of file Controller.java.
6.1.3.24 Button calculatorfx.Controller.plus [private]
Definition at line 75 of file Controller.java.
6.1.3.25 int calculatorfx.Controller.point = 0 [package]
Flag which enables a dot to be typed (0 when enabled)
Definition at line 108 of file Controller.java.
6.1.3.26 Button calculatorfx.Controller.power [private]
Definition at line 90 of file Controller.java.
6.1.3.27 int calculatorfx.Controller.ps [package]
Number of operation is stored here (0 = clear, 1 = plus, 2 = minus, 3 = multiply, 4 = divide, 5 = fact, 6 = power, 7 =
squareroot, 8 = tobinary)
Definition at line 107 of file Controller.java.
6.1.3.28 double calculatorfx.Controller.result = 0 [package]
Definition at line 104 of file Controller.java.
6.1.3.29 Button calculatorfx.Controller.seven [private]
Definition at line 57 of file Controller.java.
```

**6.1.3.30 Button calculatorfx.Controller.six** [private]

Definition at line 54 of file Controller.java.

**6.1.3.31 Button calculatorfx.Controller.squareroot** [private]

Definition at line 93 of file Controller.java.

**6.1.3.32** DecimalFormat calculatorfx.Controller.td = new DecimalFormat("0.#######") [package]

Format for decimal notation of a number

Definition at line 116 of file Controller.java.

**6.1.3.33 Button calculatorfx.Controller.three** [private]

Definition at line 45 of file Controller.java.

**6.1.3.34 Button calculatorfx.Controller.tobinary** [private]

Definition at line 96 of file Controller.java.

**6.1.3.35** Button calculatorfx.Controller.two [private]

Definition at line 42 of file Controller.java.

**6.1.3.36 Button calculatorfx.Controller.zero** [private]

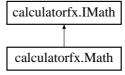
Definition at line 66 of file Controller.java.

The documentation for this class was generated from the following file:

• src/calculatorfx/Controller.java

#### 6.2 calculatorfx.lMath Interface Reference

Inheritance diagram for calculatorfx.IMath:



#### **Public Member Functions**

- double Sum (double num1, double num2)
- double Sub (double minuend, double subtrahend)
- double Div (double divident, double divisor) throws Exception
- double Mult (double num1, double num2)
- long Fact (long num) throws Exception
- double Pow (double basis, double exponent) throws Exception
- double Root (double n, double x) throws Exception
- long toBinary (long basis)
- double Abs (double nonAbs)

#### 6.2.1 Detailed Description

Definition at line 12 of file IMath.java.

- 6.2.2 Member Function Documentation
- 6.2.2.1 double calculatorfx.IMath.Abs ( double nonAbs )

Implemented in calculatorfx.Math.

6.2.2.2 double calculatorfx.IMath.Div ( double divident, double divisor ) throws Exception

Implemented in calculatorfx.Math.

6.2.2.3 long calculatorfx.IMath.Fact ( long num ) throws Exception

Implemented in calculatorfx.Math.

6.2.2.4 double calculatorfx.IMath.Mult ( double num1, double num2 )

Implemented in calculatorfx.Math.

6.2.2.5 double calculatorfx.IMath.Pow ( double basis, double exponent ) throws Exception

Implemented in calculatorfx.Math.

6.2.2.6 double calculatorfx.lMath.Root ( double n, double x ) throws Exception

Implemented in calculatorfx.Math.

6.2.2.7 double calculatorfx.IMath.Sub ( double minuend, double subtrahend )

Implemented in calculatorfx.Math.

6.2.2.8 double calculatorfx.IMath.Sum ( double num1, double num2 )

Implemented in calculatorfx.Math.

#### 6.2.2.9 long calculatorfx.IMath.toBinary (long basis)

Implemented in calculatorfx.Math.

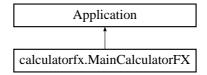
The documentation for this interface was generated from the following file:

• src/calculatorfx/IMath.java

#### 6.3 calculatorfx.MainCalculatorFX Class Reference

Main class of the calculator launching the application.

Inheritance diagram for calculatorfx.MainCalculatorFX:



## **Public Member Functions**

· void start (Stage stage) throws Exception

#### **Static Public Member Functions**

• static void main (String[] args)

#### 6.3.1 Detailed Description

Main class of the calculator launching the application.

Definition at line 24 of file MainCalculatorFX.java.

#### 6.3.2 Member Function Documentation

**6.3.2.1** static void calculatorfx.MainCalculatorFX.main ( String[] args ) [static]

Definition at line 40 of file MainCalculatorFX.java.

6.3.2.2 void calculatorfx.MainCalculatorFX.start ( Stage stage ) throws Exception

- < Added custom css styling
- < Added title
- < Added custom icon

Definition at line 27 of file MainCalculatorFX.java.

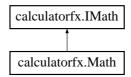
The documentation for this class was generated from the following file:

src/calculatorfx/MainCalculatorFX.java

## 6.4 calculatorfx.Math Class Reference

Class containing the methods of the math library.

Inheritance diagram for calculatorfx.Math:



#### **Public Member Functions**

• double Sum (double num1, double num2)

Method Sum.

• double Sub (double minuend, double subtrahend)

Method Sub.

double Div (double divident, double divisor) throws Exception
 Method Div.

• double Mult (double num1, double num2)

Method Mult.

• long Fact (long num) throws Exception

Method Fact.

 double Pow (double basis, double exponent) throws Exception Method Pow.

• double Root (double n, double x) throws Exception

Method Root.

• long toBinary (long basis)

Method toBinary.

• double Abs (double nonAbs)

Method Abs.

## 6.4.1 Detailed Description

Class containing the methods of the math library.

See also

MathTest.java where the functionality is tested.

Definition at line 16 of file Math.java.

6.4.2 Member Function Documentation

6.4.2.1 double calculatorfx.Math.Abs ( double nonAbs )

Method Abs.

Method Abs converts a number to its absolute value

#### **Parameters**

nonAbs is the number to be converted
--------------------------------------

#### Returns

absolute value of nonAbs

Implements calculatorfx.IMath.

Definition at line 181 of file Math.java.

6.4.2.2 double calculatorfx.Math.Div ( double *divident*, double *divisor* ) throws Exception

Method Div.

Method Div produces a division of two numbers

#### **Parameters**

divident	is the number to be divised
divisor	is the number to be divised by

## Warning

exception thrown when divisor is 0

#### Returns

division of divident and divisor

# **Exceptions**

Exception	(Division by zero.)

Implements calculatorfx.IMath.

Definition at line 57 of file Math.java.

6.4.2.3 long calculatorfx.Math.Fact ( long num ) throws Exception

Method Fact.

Method Fact produces a factorial of a number

## **Parameters**

num is the number to be factorise	ed
-----------------------------------	----

#### Returns

factorial of num

## **Exceptions**

Exception	(Factorial of negative number.)

Implements calculatorfx.IMath.

Definition at line 88 of file Math.java.

6.4.2.4 double calculatorfx.Math.Mult ( double num1, double num2 )

Method Mult.

Method Mult produces a multiplication of two numbers

#### **Parameters**

num1	is the first number to be multiplied
num2	is the second number to be multiplied

#### Returns

product of num1 and num2

Implements calculatorfx.IMath.

Definition at line 74 of file Math.java.

6.4.2.5 double calculatorfx.Math.Pow ( double basis, double exponent ) throws Exception

Method Pow.

Method Pow produces an exponentiation of a number

#### **Parameters**

basis	is the basis
exponent	is the exponent

## Returns

basis to the power of the exponent

## **Exceptions**

Exception	(Negative exponent.)

Implements calculatorfx.IMath.

Definition at line 110 of file Math.java.

6.4.2.6 double calculatorfx.Math.Root ( double n, double x ) throws Exception

Method Root.

Method Root produces a square root of a number

#### **Parameters**

n	is the grade of root
Х	is the basis

#### Returns

square root of num

#### **Exceptions**

Exception	(Root not defined.)    (Even root from negative number.)
-----------	--

Implements calculatorfx.IMath.

Definition at line 136 of file Math.java.

6.4.2.7 double calculatorfx.Math.Sub ( double minuend, double subtrahend )

Method Sub.

Method Sub produces a difference of two numbers

# **Parameters**

minuend	is the number to be subtracted from
subtrahend	is the number to be subtracted

#### Returns

difference between minuend and subtrahend

Implements calculatorfx.IMath.

Definition at line 41 of file Math.java.

6.4.2.8 double calculatorfx.Math.Sum ( double num1, double num2 )

Method Sum.

Method Sum produces a sum of two numbers

#### **Parameters**

num1	is the first number to be added
num2	is the second number to be added

#### Returns

sum of num1 and num2

Implements calculatorfx.IMath.

Definition at line 27 of file Math.java.

6.4.2.9 long calculatorfx.Math.toBinary (long basis)

Method toBinary.

Method toBinary converts a number to binary

#### **Parameters**

## Returns

basis written in binary

Implements calculatorfx.IMath.

Definition at line 167 of file Math.java.

The documentation for this class was generated from the following file:

• src/calculatorfx/Math.java

## 6.5 test.MathTest Class Reference

Class containing the tests.

**Public Member Functions** 

- MathTest ()
- void setUp ()
- void tearDown ()
- · void testSum ()

Test of Sum method.

• void testSub ()

Test of Sub method.

void testDiv () throws Exception

```
6.5 test.MathTest Class Reference
          Test of Div method.

    void testMult ()

          Test of Mult method.
    · void testFact () throws Exception
          Test of Fact method.
    • void testPow () throws Exception
          Test of Pow method.
    · void testRoot () throws Exception
          Test of Root method.

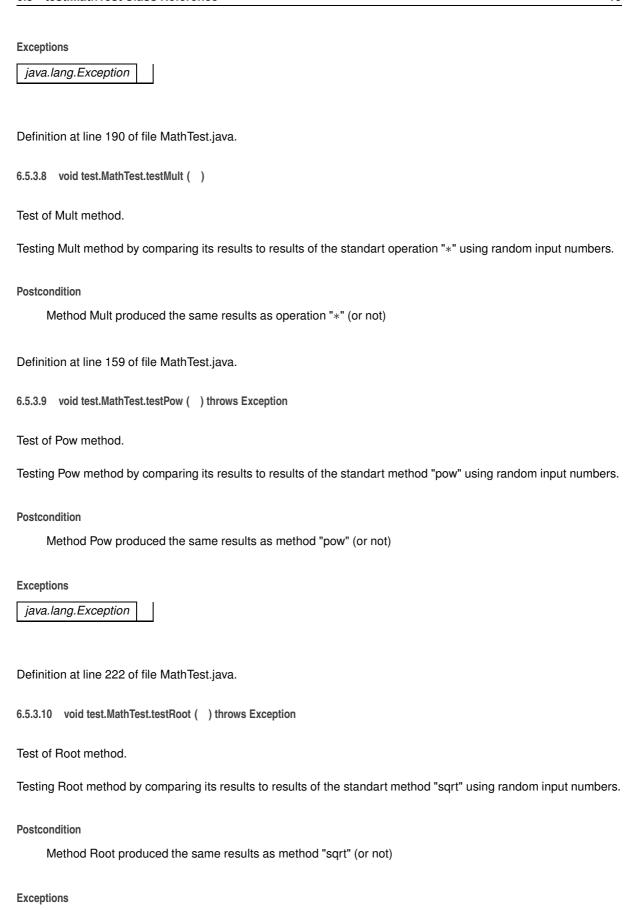
    void testToBinary ()

          Test of ToBinary method.
    · void testAbs ()
          Test of Abs method.
Static Public Member Functions
    • static void setUpClass ()
    • static void tearDownClass ()
Package Attributes
    • Random rand = new Random()
6.5.1 Detailed Description
Class containing the tests.
Postcondition
      Custom math library is tested whether it works as desired or not.
Definition at line 31 of file MathTest.java.
```

# 6.5.2 Constructor & Destructor Documentation 6.5.2.1 test.MathTest.MathTest ( ) Definition at line 35 of file MathTest.java. 6.5.3 Member Function Documentation 6.5.3.1 void test.MathTest.setUp ( )

Definition at line 47 of file MathTest.java.

6.5.3.2 static void test.MathTest.setUpClass ( ) [static]
Definition at line 39 of file MathTest.java.
6.5.3.3 void test.MathTest.tearDown ( )
Definition at line 51 of file MathTest.java.
6.5.3.4 static void test.MathTest.tearDownClass ( ) [static]
Definition at line 43 of file MathTest.java.
6.5.3.5 void test.MathTest.testAbs()
Test of Abs method.
Testing Abs method by comparing its results to results of the standart method "abs"using random negative input numbers.
Postcondition
Method Abs produced the same results as method "abs" (or not)
Definition at line 316 of file MathTest.java.
6.5.3.6 void test.MathTest.testDiv ( ) throws Exception
Test of Div method.
Testing Div method by comparing its results to results of the standart operation "/" using random input numbers.
Postcondition
Method div produced the same results as operation "/" (or not)
Exceptions
java.lang.Exception
Definition at line 121 of file MathTest.java.
6.5.3.7 void test.MathTest.testFact ( ) throws Exception
Test of Fact method.
Testing Fact method by comparing its results to expected results.
Postcondition
Method Fact produced the expected results (or not)



java.lang.Exception

Definition at line 250 of file MathTest.java. 6.5.3.11 void test.MathTest.testSub ( ) Test of Sub method. Testing Sub method by comparing its results to results of the standart operation "-" using random input numbers. **Postcondition** Method Sub produced the same results as operation "-" (or not) Definition at line 90 of file MathTest.java. 6.5.3.12 void test.MathTest.testSum ( ) Test of Sum method. Testing Sum method by comparing its results to results of the standart operation "+" using random input numbers. Postcondition Method Sum produced the same results as operation "+" (or not) Definition at line 61 of file MathTest.java. 6.5.3.13 void test.MathTest.testToBinary ( ) Test of ToBinary method. Testing ToBinary method by comparing its results to results of the standart methods "toString" and "parseInt" using random input numbers. **Postcondition** Method ToBinary produced the same results as methods "toString" and "parseInt" (or not) Definition at line 288 of file MathTest.java. 6.5.4 Member Data Documentation **6.5.4.1** Random test.MathTest.rand = new Random() [package] Definition at line 33 of file MathTest.java.

src/test/MathTest.java

The documentation for this class was generated from the following file:

## 6.6 calculatorfx.StandartDeviation Class Reference

Implementation of the SD, includes main.

**Static Public Member Functions** 

static void main (String[] args) throws Exception

#### 6.6.1 Detailed Description

Implementation of the SD, includes main.

#### Precondition

The data, out of which the SD is to be calculated, need to be available on the standart input after the program is executed.

#### Postcondition

SD is printed to the standart output.

Definition at line 20 of file StandartDeviation.java.

#### 6.6.2 Member Function Documentation

- 6.6.2.1 static void calculatorfx. Standart Deviation.main (String[] args) throws Exception [static]
- < Import of the math library
- < Read one line from the standart output
- < Number currently read from the standart output
- < Sum of all inputted numbers (a+b+...)
- < Sum of all inputted numbers squared (a $^2+b^2+...$ )
- < The number of numbers (N)
- < Mean of all inputted numbers
- < Implementation of the equation of the SD

Definition at line 22 of file StandartDeviation.java.

The documentation for this class was generated from the following file:

• src/StandartDeviation.java

## 7 File Documentation

## 7.1 src/calculatorfx/Controller.java File Reference

Implementation of a Controller for a java FXML application.

#### Classes

· class calculatorfx.Controller

The controller of the calculator.

## **Packages**

· package calculatorfx

## 7.1.1 Detailed Description

Implementation of a Controller for a java FXML application.

This file contains a java implementation of a Controller for a java FXML application. It is a part of a group project for the subject IVS of Brno University of Technology.

#### Author

Rene Bolf & Radoslav Grencik

## 7.2 src/calculatorfx/IMath.java File Reference

#### Classes

· interface calculatorfx.IMath

#### **Packages**

· package calculatorfx

## 7.3 src/calculatorfx/MainCalculatorFX.java File Reference

Implementation of a main class for a java FXML application.

#### Classes

· class calculatorfx.MainCalculatorFX

Main class of the calculator launching the application.

#### **Packages**

· package calculatorfx

#### 7.3.1 Detailed Description

Implementation of a main class for a java FXML application.

This file contains a java implementation of a main class for a java FXML application. It is a part of a group project for the subject IVS of Brno University of Technology.

#### Author

Rene Bolf & Radoslav Grencik

## 7.4 src/calculatorfx/Math.java File Reference

Interface for a custom math library.

#### Classes

· class calculatorfx.Math

Class containing the methods of the math library.

## **Packages**

· package calculatorfx

#### 7.4.1 Detailed Description

Interface for a custom math library.

Implementation of a custom math library.

This file contains an interface of a custom math library for addition, subtraction, multiplication, division, calculating factorials, power and root functions, conversion to binary and conversion to absolute values. It is a part of a group project for the subject IVS of Brno University of Technology.

#### Author

Michal Vasicek

This file contains a java implementation of a custom math library for addition, subtraction, multiplication, division, calculating factorials, power and root functions, conversion to binary and conversion to absolute values. It is a part of a group project for the subject IVS of Brno University of Technology.

#### **Author**

Michal Vasicek

## 7.5 src/StandartDeviation.java File Reference

Program to calculate the SD.

## Classes

· class calculatorfx.StandartDeviation

Implementation of the SD, includes main.

#### **Packages**

· package calculatorfx

#### 7.5.1 Detailed Description

Program to calculate the SD.

This file contains a java implementation of a program to calculate the standart deviation (SD) using custom math library. It is a part of a group project for the subject IVS of Brno University of Technology.

**Author** 

Ondrej Holub

See also

Math.java, IMath.java

#### 7.6 src/styles/Style.css File Reference

## 7.7 src/test/MathTest.java File Reference

Test the functionality of the custom math library.

#### Classes

· class test.MathTest

Class containing the tests.

### **Packages**

· package test

# 7.7.1 Detailed Description

Test the functionality of the custom math library.

This file contains tests for the custom math library used for the calculator. Each method is tested by using it to calculate a result and then comparing the results with standart operations. It is a part of a group project for the subject IVS of Brno University of Technology.

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See also

Math.java, IMath.java