

WS39UnitTest

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<https://docs.google.com/document/d/1WWIGkV9O9tTiW68rLxYwTiHdBFeJEMCh/edit?usp=sharing&ouid=111686028395648835270&rtpof=true&sd=true>

Simple Calculator	Operations	Help
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	Multiply	
	Divide	

Welcome to Simple Calculator!

(Return)

Add.

Addent 1 Addent 2 Sum

+ =

(Accept) (Cancel)

(Return)

Multiply

Multiplicand Multiplier Product

x =

(Accept) (Cancel)

(Return)

Subtract

Minuend Subtrahend Difference

- =

(Accept) (Cancel)

(Return)

Divide

Divident Divisor Quotient

÷ =

(Accept) (Cancel)

```
package ec.edu.espe.calculator.controller;

/**
 *
 * @author Leonardo Yaranga, Progress Team, DOCO-ESPE
 */
public class BasicOperation {

    public static float add(float addend1, float addent2) {
        float sum;
        sum = addend1 + addent2;
        return sum;
    }

    public static float subtract(float minuend, float subtrahend) {
        float difference;
        difference = minuend - subtrahend;
        return difference;
    }

    public static float multiply(float multiplicand, float multiplier) {
        float product;
        product = multiplicand * multipler;
        return product;
    }

    public static float divide(float dividend, float divisor) {
        float quotient = 0.0F;

        if (dividend != 0) {
            quotient = dividend / divisor;
        }

        return quotient;
    }
}
```

(Return)

Add

Addent1 Addent2 Sum

Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: For input string: ""
at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:201)
at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
at java.base/java.lang.Float.parseFloat(Float.java:555)

Return **Add**

Addent1 Addent2 Sum

'a' + 5 =

Accept Cancel

```
Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: For input string: "'a'"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:205)
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
    at java.base/java.lang.Float.parseFloat(Float.java:555)
    at ec.edu.espe.calculator.view.FrmAdd.btnAcceptActionPerformed(FrmAdd.java:208)
    at ec.edu.espe.calculator.view.FrmAdd$4.actionPerformed(FrmAdd.java:85)
    at java.desktop/javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:1972)
    at java.desktop/javax.swing.AbstractButton$Handler.actionPerformed(AbstractButton.java:2313)
    at java.desktop/javax.swing.DefaultButtonModel.fireActionPerformed(DefaultButtonModel.java:402)
```

Return **Substract**

Minuend Subtrahend Difference

- =

```
Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: empty String
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:18)
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
    at java.base/java.lang.Float.parseFloat(Float.java:555)
    at ec.edu.espe.calculator.view.FrmSubtract.btnAcceptActionPerformed(FrmSubtract.java:202)
```

Return **Multiply**

Multiplicand Multiplier Product

caracol x 7 =

```
Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: For input string: "caracol"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:205)
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
```

Return **Multiply**

Multiplicand Multiplier Product

x 8.34 =

```
Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: For input string: "#"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:205)
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
    at java.base/java.lang.Float.parseFloat(Float.java:555)
```

Return **Divide**

Divident Quotient

65.789 / = 5.1118107

Divisor 12.87

Divident 67 Quotient

/ = Infinity

Divisor 0

Return **Divide**

Divident Quotient

0 / = NaN

Divisor 0

Return **Divide**

Divident Quotient

a56.77 / =

Divisor 5.88

```
Exception in thread "AWT-EventQueue-0" java.lang.NumberFormatException: For input string: "a56.77"
    at java.base/jdk.internal.math.FloatingDecimal.readJavaFormatString(FloatingDecimal.java:205)
    at java.base/jdk.internal.math.FloatingDecimal.parseFloat(FloatingDecimal.java:122)
```

Test cases					
Add					
addent1	addent2	expSum	actSum		
8	15	23	23,0	ok	
7	16	23	23,0	ok	
7,26	6,37	13,63	13,63	ok	
-11,55	7,6	-3,95	-3,9500003	fail	
a'	5	ERROR	ERROR	ok	
-6 f	5	ERROR	ERROR	ok	
-7	5	-2	-2,0	ok	
14,6	-6,1	8,5	8,5	ok	
9999999	9999999	19999998	1,9999998E+07	ok?	
0	-2300	-2300	-2300,0	ok	

Substract					
minuend	subtrahend	expDifference	actDifference		
6	6	0	0,0	ok	
8	-7	15	15,0	ok	
-3,45	1,24	-4,69	-4,69	ok	
-7,88	11	-18,88	-18,880001	fail	
78	13,67	64,33	64,33	ok	
99999	-99999	199998	199998,0	ok	
b'	a'	ERROR	ERROR	ok	
d	34,45	ERROR	ERROR	ok	
0	0	0	0,0	ok	
		0	ERROR	fail	

Multiply				
multiplicand	multiplier	expProduct	actProduct	
caracol	7	#VALUE!	ERROR	ok
6,55	7,45	48,7975	48,7975	ok
#	8,34	#VALUE!	ERROR	ok
-6,77	9	-60,93	-60,93	ok
999999	999999	9,99998E+11	9,99998E+11	ok
87	78,982	6871,434	6.871,434	ok
		0	ERROR	fail

Divide				
dividend	divisor	expQuotient	actQuotient	
34	56,37	0,603157708	0,6031577	ok?
65,789	12,87	5,111810412	5,1118107	ok?
99999999	99999999	1	1,0	ok
999999	5,88	170067,8571	170067,86	ok?
a56.77	14	ERROR	ERROR	ok
0	0	#DIV/0!	NaN	ok
		ERROR	ERROR	fail

-6,77	9	-60,93	-60,93	ok	999999	5,88	170067,8571	170067,86	ok?
999999	999999	9,99998E+11	9,99998E+11	ok	a56.77	14	ERROR	ERROR	ok
87	78,982	6871,434	6.871,434	ok	0	0	#DIV/0!	NaN	ok
		0	ERROR	fail	"	"	ERROR	ERROR	ok
")	#VALUE!	ERROR	ok			#DIV/0!	ERROR	fail
0	99999999	0	0.0	ok	Z	13,56	ERROR	ERROR	ok
A	0	#VALUE!	ERROR	ok	67	0	Infinity	Infinity	ok

The screenshot displays a Windows desktop environment. The primary window is 'VS3RunTest', which shows a list of names in a table format. The names listed are: TOAMPA TORRENTA DANI ALEXANDER, TORRES PINAY CARLOS ALEXANDER, TREJO DUQUE ALEX FERNANDO, ULLOA VELASCO JEFFERSON MANUEL, VERDUGO CABRERA WALTER SEBASTIAN, VILLARROEL BARRENO JUSTIN JOSHUA, and VARGAS SUGULLO LEONARDO JAVIER.

Below the list, there is a code editor window displaying a Java class named 'Reservaciones'. The code includes methods for adding, subtracting, and multiplying reservations, each taking an 'id' and a 'valor' parameter. The code is as follows:

```

public class Reservaciones {
    public static void addReservacion(int id, float valor) {
        float sum = 0;
        sum = id * valor;
        System.out.println(sum);
    }

    public static void subtractReservacion(int id, float valor) {
        float difference = id - valor;
        System.out.println(difference);
    }

    public static void multiplyReservacion(int id, float valor) {
        float product = id * valor;
        System.out.println(product);
    }
}

```

At the bottom of the screen, there is a taskbar with various application icons. A small window titled 'Herramienta Recortes' (Screenshot Tool) is visible in the bottom right corner, showing a preview of the selected area and options to capture, copy, or save the screenshot.