Universidad Mariano Galvez Programación 2 Sección D

Calculadora

Debido a que en el sitio de la universidad no encontré instrucciones completas para la entrega y recuerdo que se habló de insertar un documento en isuu genero el siguiente pdf para que pueda ser verificado.

El presente documento contiene:

- La dirección del repositorio de github donde se encuentra el código completo de la tarea con la calculadora.
- La documentación de las funciones generadas con JavaDoc y que fueron impresas desde la visualización web sin frames. Esta documentación generada es parte del código.

En el código se encuentra un archivo de proyecto Netbeans para su facilidad de verificación. Debido a que es tarea y código para revisar no se incluye programa compilado y listo para ejecutar, sino que se debe ejecutar desde el proyecto.

Cualquier duda estoy a las órdenes.

Dirección del código en Github:

https://github.com/mariosotoumg/ProgramaCalculadora

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calculadora

Class mcalc

- java.lang.Object
- - ♦ \$\dagger\$ java.awt.Container
 - ♦ · java.awt.Window
 - java.awt.Frame
 - - ♦ ♦ calculadora.mcalc
- All Implemented Interfaces:

java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

```
public class mcalc
extends javax.swing.JFrame
```

Class meale 1

Programa que muestra una calculadora con funciones avanzadas medias See Also:

Serialized Form

 \Diamond

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JFrame

javax.swing.JFrame.AccessibleJFrame

Nested classes/interfaces inherited from class java.awt.Frame

java.awt.Frame.AccessibleAWTFrame \Diamond

Nested classes/interfaces inherited from class java.awt.Window

java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type

Nested classes/interfaces inherited from class java.awt.Container

java.awt.Container.AccessibleAWTContainer

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.AccessibleAWTComponent,
java.awt.Component.BaselineResizeBehavior,
java.awt.Component.BltBufferStrategy,
java.awt.Component.FlipBufferStrategy
```

Field Summary

Fields

Modifier and Type		Field and Description
<pre>private javax.swing.JButton</pre>	<u>b0</u>	
<pre>private javax.swing.JButton</pre>	<u>b1</u>	
<pre>private javax.swing.JButton</pre>	<u>b2</u>	

<pre>private javax.swing.JButton</pre>	<u>b3</u>
<pre>private javax.swing.JButton</pre>	<u>b4</u>
<pre>private javax.swing.JButton</pre>	<u>b5</u>
<pre>private javax.swing.JButton</pre>	<u>b6</u>
<pre>private javax.swing.JButton</pre>	<u>b7</u>
<pre>private javax.swing.JButton</pre>	<u>b8</u>
<pre>private javax.swing.JButton</pre>	<u>b9</u>
<pre>private javax.swing.JButton</pre>	<u>bBorrar</u>
private javax.swing.JButton	<u>bC</u>
private javax.swing.JButton	<u>bCE</u>
private javax.swing.JButton	<u>bCuadrado</u>
private javax.swing.JButton	<u>bDivision</u>
<pre>private javax.swing.JButton</pre>	<u>bIgual</u>
private javax.swing.JButton	<u>bInverso</u>
private javax.swing.JButton	<u>bMultiplicacion</u>
private javax.swing.JButton	<u>bPorciento</u>
private javax.swing.JButton	<u>bPunto</u>
private javax.swing.JButton	<u>bRaiz</u>
private javax.swing.JButton	<u>bResta</u>
private javax.swing.JButton	<u>bSigno</u>
private javax.swing.JButton	<u>bSuma</u>

Field Summary 3

```
limpiar
                              Bandera para limpiar contenido de pantalla cuando
int
                              se presiona un siguiente número
                              num
float
                              Primer operando en operaciones de 2 operandos
                              operacion
                              Código de la operación a realizar cuando la
int
                              operaciÃ<sup>3</sup>n tiene mas de un operando
private
                              pantalla
javax.swing.JTextField
      Fields inherited from class javax.swing.JFrame
      accessibleContext, EXIT_ON_CLOSE, rootPane,
      rootPaneCheckingEnabled
      Fields inherited from class java.awt.Frame
      CROSSHAIR_CURSOR, DEFAULT_CURSOR, E_RESIZE_CURSOR,
      HAND_CURSOR, ICONIFIED, MAXIMIZED_BOTH, MAXIMIZED_HORIZ,
     MAXIMIZED_VERT, MOVE_CURSOR, N_RESIZE_CURSOR,
      NE_RESIZE_CURSOR, NORMAL, NW_RESIZE_CURSOR,
      S_RESIZE_CURSOR, SE_RESIZE_CURSOR, SW_RESIZE_CURSOR,
      TEXT_CURSOR, W_RESIZE_CURSOR, WAIT_CURSOR
      Fields inherited from class java.awt.Component
      BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT,
      RIGHT_ALIGNMENT, TOP_ALIGNMENT
      Fields inherited from
      interface javax.swing.WindowConstants
      DISPOSE_ON_CLOSE, DO_NOTHING_ON_CLOSE, HIDE_ON_CLOSE
      Fields inherited from
      interface java.awt.image.ImageObserver
      ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES,
      SOMEBITS, WIDTH
Constructor Summary
Constructors
```

mcalc()

Constructor and Description

Crea el formulario de la calculadora e inicializa valores

•

Method Summary

All Methods <u>Static Methods</u> <u>Instance Methods</u> <u>Concrete Methods</u>

Modifier and Type	Method and Description
private void	$\frac{\texttt{b0ActionPerformed}}{\texttt{Tecla}0} \texttt{(java.awt.event.ActionEvent evt)}$
private void	<pre>blActionPerformed(java.awt.event.ActionEvent evt) Tecla 1</pre>
private void	<u>b2ActionPerformed</u> (java.awt.event.ActionEvent evt) Tecla 2
private void	<u>b3ActionPerformed</u> (java.awt.event.ActionEvent evt) Tecla 3
_	<u>b4ActionPerformed</u> (java.awt.event.ActionEvent evt) Tecla 4
private void	<pre>b5ActionPerformed(java.awt.event.ActionEvent evt) Tecla 5</pre>
private void	<pre>b6ActionPerformed(java.awt.event.ActionEvent evt) Tecla 6</pre>
private void	<pre>b7ActionPerformed(java.awt.event.ActionEvent evt) Tecla 7</pre>
private void	<u>b8ActionPerformed</u> (java.awt.event.ActionEvent evt) Tecla 8
private void	<pre>b9ActionPerformed(java.awt.event.ActionEvent evt) Tecla 9</pre>
private void	<pre>bBorrarActionPerformed(java.awt.event.ActionEvent evt) Elimina el caracter mas a la derecha</pre>
_	<pre>bCActionPerformed(java.awt.event.ActionEvent evt) Limpia la pantalla</pre>
private void	<pre>bCEActionPerformed(java.awt.event.ActionEvent evt) Limpia operandos, operaciones y pantalla</pre>
private void	$\frac{b Cuadrado Action Performed}{Event} (java.awt.event.Action Event evt)$ Realiza la operaci \tilde{A}^3 n de elevar al cuadrado el valor de la pantalla
private void	$\frac{\text{bDivisionActionPerformed}}{\text{Identifica que la operaci}\tilde{A}^3 n \text{ a realizar ser}\tilde{A}_i^* \text{ divisi}\tilde{A}^3 n \text{ - guarda el primer operando - band de limpieza de pantalla al siguiente n}\tilde{A}^o mero ingresado$
private void	$\frac{\text{bIgualActionPerformed}}{\text{Ejecuta el proceso para realizar la operaci}} (\text{java.awt.event.ActionEvent evt})$

bInversoActionPerformed(java.awt.event.ActionEvent evt)

```
private Realiza la operaciÃ3n de número inverso (1/x) el valor de la pantalla
void
           bMultiplicacionActionPerformed (java.awt.event.ActionEvent ev
private
           Identifica que la operaciÃ<sup>3</sup>n a realizar serÃ; multiplcaciÃ<sup>3</sup>n - guarda el primer operando -
void
           bandera de limpieza de pantalla al siguiente número ingresado
private <a href="https://proceedings.org/beneficial-newed">https://proceedings.org/beneficial-newed</a> (java.awt.event.ActionEvent evt)
           Ejecuta el proceso para realizar la operaciÃ<sup>3</sup>n de 2 operandos.
void
private <a href="mailto:bPuntoActionPerformed">bPuntoActionPerformed</a> (java.awt.event.ActionEvent evt)
           Agrega un punto decimal al número en pantalla.
void
private bRaizActionPerformed(java.awt.event.ActionEvent evt)
           Realiza la operaciA<sup>3</sup>n de raiz cuadrada sobre el valor de la pantalla
void
           bRestaActionPerformed(java.awt.event.ActionEvent evt)
private
           Identifica que la operaciÃ<sup>3</sup>n a realizar serÃ; resta - guarda el primer operando - bandera d
void
           limpieza de pantalla al siguiente número ingresado
private <a href="mailto:bSignoActionPerformed">bSignoActionPerformed</a> (java.awt.event.ActionEvent evt)
void
           Cambia el signo del valor mostrado en la pantalla
           bSumaActionPerformed(java.awt.event.ActionEvent evt)
private
           Identifica que la operaciA<sup>3</sup>n a realizar serA; suma - guarda el primer operando - bandera d
void
           limpieza de pantalla al siguiente número ingresado
private initComponents()
void
           This method is called from within the constructor to initialize the form.
static main(java.lang.String[] args)
           FunciÃ<sup>3</sup>n main
void
           operar(int percent)
private
           Realiza operaciones b¡sicas, e iguala al contenido de la pantalla sin operación - suma -
void
           resta - multiplicaciÃ3n - divisiÃ3n
           verificarLimpiar()
private
           Verifica y limpia la pantalla de la calculadora si se ingresÃ<sup>3</sup> una operaciÃ<sup>3</sup>n que requiere
void
           segundo operando
```

Methods inherited from class javax.swing.JFrame

addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane, getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated, isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane, setRootPaneCheckingEnabled, setTransferHandler, update

Method Summary 6

♦ Methods inherited from class java.awt.Frame

addNotify, getCursorType, getExtendedState, getFrames, getIconImage, getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove, removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds, setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated

Methods inherited from class java.awt.Window

addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale, getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner, getOwnerlessWindows, getShape, getToolkit, getType, getWarningString, getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot, pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape, setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation, setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType, setSize, setSize, setType, setVisible, show, toBack, toFront

Methods inherited from class java.awt.Container

add, add, add, add, addContainerListener,
applyComponentOrientation, areFocusTraversalKeysSet,
countComponents, deliverEvent, doLayout, findComponentAt,
findComponentAt, getAlignmentX, getAlignmentY,
getComponent, getComponentAt, getComponentAt,
getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalPolicy,
getInsets, getLayout, getMaximumSize, getMinimumSize,
getMousePosition, getPreferredSize, insets, invalidate,
isAncestorOf, isFocusCycleRoot,

isFocusTraversalPolicyProvider,
isFocusTraversalPolicySet, layout, list, list, locate,
minimumSize, paintComponents, preferredSize, print,
printComponents, processContainerEvent, remove,
removeAll, removeContainerListener, setComponentZOrder,
setFocusTraversalKeys, setFocusTraversalPolicy,
setFocusTraversalPolicyProvider, setFont,
transferFocusDownCycle, validate, validateTree

Methods inherited from class java.awt.Component

action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent,

processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle

Methods inherited from class java.lang.Object

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

Methods inherited from interface java.awt.MenuContainer

getFont, postEvent

Field Detail

♦ num

public float num

Primer operando en operaciones de 2 operandos

♦ limpiar

public int limpiar

Bandera para limpiar contenido de pantalla cuando se presiona un siguiente número ♦ operacion

public int operacion

 $C\tilde{A}^3$ digo de la operaci \tilde{A}^3 n a realizar cuando la operaci \tilde{A}^3 n tiene mas de un operando \Diamond **b0**

private javax.swing.JButton b0

```
♦ b1
 private javax.swing.JButton b1
♦ b2
 private javax.swing.JButton b2
♦ b3
 private javax.swing.JButton b3
♦ b4
 private javax.swing.JButton b4
♦ b5
 private javax.swing.JButton b5
♦ b6
 private javax.swing.JButton b6
♦ b7
 private javax.swing.JButton b7
♦ b8
 private javax.swing.JButton b8
♦ b9
 private javax.swing.JButton b9
♦ bBorrar
 private javax.swing.JButton bBorrar
♦ bC
 private javax.swing.JButton bC
♦ bCE
 private javax.swing.JButton bCE
♦ bCuadrado
 private javax.swing.JButton bCuadrado
♦ bDivision
 private javax.swing.JButton bDivision
♦ blgual
 private javax.swing.JButton bIgual
♦ blnverso
 private javax.swing.JButton bInverso
♦ bMultiplicacion
 private javax.swing.JButton bMultiplicacion
```

Field Detail 10

◊ bPorciento

```
private javax.swing.JButton bPorciento

bPunto

private javax.swing.JButton bPunto

bRaiz

private javax.swing.JButton bRaiz

bResta

private javax.swing.JButton bResta

bSigno

private javax.swing.JButton bSigno

bSuma

private javax.swing.JButton bSigno

balance

private javax.swing.JButton bSuma

private javax.swing.JButton bSuma

private javax.swing.JButton bSuma
```

Constructor Detail

♦ mcalc

```
public mcalc()
```

Crea el formulario de la calculadora e inicializa valores

Method Detail

♦ initComponents

```
private void initComponents()
```

This method is called from within the constructor to initialize the form. WARNING: Do NOT modify this code. The content of this method is always regenerated by the Form Editor.

◊ verificarLimpiar

```
private void verificarLimpiar()
```

Verifica y limpia la pantalla de la calculadora si se ingresó una operación que requiere un segundo operando

♦ operar

```
private void operar(int percent)
```

Field Detail 11

```
Realiza operaciones bÃ; sicas, e iguala al contenido de la pantalla sin operaciÃ3n -
 suma - resta - multiplicación - división
 Parameters:
        percent - Variable que indica si se ha de tomar como porcentaje el
♦ b1ActionPerformed
 private void b1ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 1
 Parameters:
        evt - Evento
♦ b2ActionPerformed
 private void b2ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 2
 Parameters:
        evt - Evento
♦ b3ActionPerformed
 private void b3ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 3
 Parameters:
        evt - Evento
♦ b4ActionPerformed
 private void b4ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 4
 Parameters:
        evt - Evento
♦ b5ActionPerformed
 private void b5ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 5
 Parameters:
        evt. - Evento
♦ b6ActionPerformed
 private void b6ActionPerformed(java.awt.event.ActionEvent evt)
 Tecla 6
 Parameters:
        evt - Evento
♦ b7ActionPerformed
 private void b7ActionPerformed(java.awt.event.ActionEvent evt)
```

Method Detail

Tecla 7

```
Parameters:
```

evt - Evento

♦ b8ActionPerformed

private void b8ActionPerformed(java.awt.event.ActionEvent evt)

Tecla 8

Parameters:

evt - Evento

♦ b9ActionPerformed

private void b9ActionPerformed(java.awt.event.ActionEvent evt)

Tecla 9

Parameters:

evt - Evento

♦ b0ActionPerformed

private void b0ActionPerformed(java.awt.event.ActionEvent evt)

Tecla 0

Parameters:

evt - Evento

♦ bSumaActionPerformed

private void bSumaActionPerformed(java.awt.event.ActionEvent evt)

Identifica que la operaci \tilde{A}^3 n a realizar ser \tilde{A}_i suma - guarda el primer operando - bandera de limpieza de pantalla al siguiente n \tilde{A}^o mero ingresado Parameters:

evt. - Evento

♦ bRestaActionPerformed

private void bRestaActionPerformed(java.awt.event.ActionEvent evt)

Identifica que la operación a realizar será resta - guarda el primer operando - bandera de limpieza de pantalla al siguiente nðmero ingresado Parameters:

evt - Evento

♦ bMultiplicacionActionPerformed

private void bMultiplicacionActionPerformed(java.awt.event.ActionEvent evt)

Identifica que la operaci \tilde{A}^3 n a realizar ser \tilde{A}_i ; multiplcaci \tilde{A}^3 n - guarda el primer operando - bandera de limpieza de pantalla al siguiente n \tilde{A}^o mero ingresado Parameters:

evt - Evento

♦ bDivisionActionPerformed

private void bDivisionActionPerformed(java.awt.event.ActionEvent evt)

Identifica que la operaci \tilde{A}^3 n a realizar ser \tilde{A}^1_i divisi \tilde{A}^3 n - guarda el primer operando - bandera de limpieza de pantalla al siguiente n \tilde{A}^o mero ingresado Parameters:

evt - Evento

♦ blgualActionPerformed

```
private void bIgualActionPerformed(java.awt.event.ActionEvent evt)
```

Ejecuta el proceso para realizar la operación de 2 operandos. No aplica el valor de porcentaje al segundo operando

Parameters:

evt - Evento

♦ bCEActionPerformed

```
private void bCEActionPerformed(java.awt.event.ActionEvent evt)
```

Limpia operandos, operaciones y pantalla

Parameters:

evt - Evento

♦ bBorrarActionPerformed

```
private void bBorrarActionPerformed(java.awt.event.ActionEvent evt)
```

Elimina el caracter mas a la derecha

Parameters:

evt. - Evento

♦ bCActionPerformed

```
private void bCActionPerformed(java.awt.event.ActionEvent evt)
```

Limpia la pantalla

Parameters:

evt - Evento

♦ bPorcientoActionPerformed

```
private void bPorcientoActionPerformed(java.awt.event.ActionEvent evt)
```

Ejecuta el proceso para realizar la operación de 2 operandos. Aplica el valor de porcentaje al segundo operando

Parameters:

evt - Evento

♦ bRaizActionPerformed

```
private void bRaizActionPerformed(java.awt.event.ActionEvent evt)
```

Realiza la operaci \tilde{A}^3 n de raiz cuadrada sobre el valor de la pantalla Parameters:

evt - Evento

♦ bCuadradoActionPerformed

```
private void bCuadradoActionPerformed(java.awt.event.ActionEvent evt)
```

Realiza la operaci \tilde{A}^3 n de elevar al cuadrado el valor de la pantalla Parameters:

evt - Evento

♦ bInversoActionPerformed

```
private void bInversoActionPerformed(java.awt.event.ActionEvent evt)
```

Realiza la operaci \tilde{A}^3 n de n \tilde{A}^o mero inverso (1/x) el valor de la pantalla Parameters:

evt - Evento

♦ bSignoActionPerformed

```
private void bSignoActionPerformed(java.awt.event.ActionEvent evt)
```

Cambia el signo del valor mostrado en la pantalla

Parameters:

evt - Evento

♦ bPuntoActionPerformed

```
private void bPuntoActionPerformed(java.awt.event.ActionEvent evt)
```

Agrega un punto decimal al número en pantalla. Revisa que no existan puntos. Parameters:

evt - Evento

♦ main

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

Función main

Parameters:

args - the command line arguments

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