

## *Javadoc Calculadora*

### Package edu.ipn.cecyl9.calculadora

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#### Class Summary

Class	Description
<a href="#">Calculadora</a>	Interfaz para nuestra calculadora basica
<a href="#">CalculadoraMain</a>	Ejercicio: Calculadora basica Implementar la Interfaz de usuario Implementar los metodos adecuados: - Sumar - Restar - Multiplicar - Dividir

edu.ipn.cecyl9.calculadora

## Class CalculadoraMain

- java.lang.Object
- edu.ipn.cecyl9.calculadora.CalculadoraMain

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

Ejercicio: Calculadora basica Implementar la Interfaz de usuario Implementar los metodos siguientes a través de los listeners adecuados: - Sumar - Restar - Multiplicar - Dividir

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### • **Constructor Summary**

#### Constructors

##### Constructor and Description

[CalculadoraMain\(\)](#)

### • **Method Summary**

#### All MethodsStatic MethodsConcrete Methods

##### Modifier and Type

##### Method and Description

static void

[main](#)(java.lang.String[] args)

### • **Methods inherited from class java.lang.Object**

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

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### • **Constructor Detail**

#### • **CalculadoraMain**

```
public CalculadoraMain()
```

### • **Method Detail**

- **main**

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

```
edu.ipn.cecyl9.calculadora
```

## **Class Calculadora**

- java.lang.Object
  - java.awt.Component
    - java.awt.Container
      - java.awt.Window
        - java.awt.Frame
          - javax.swing.JFrame
            - edu.ipn.cecyl9.calculadora.Calculadora

- **All Implemented Interfaces:**

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

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

Interfaz para nuestra calculadora basica

**See Also:**

[Serialized Form](#)

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- ***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
```

- **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 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

Constructor and Description

[Calculadora\(\)](#)  
Constructor.

- **Method Summary**

- **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

- **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, isValidRoot, 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, 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, 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, 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, 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
```

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- ***Constructor Detail***

- **Calculadora**

```
public Calculadora()
```

Constructor. Crea los botones y componentes de la calculadora