

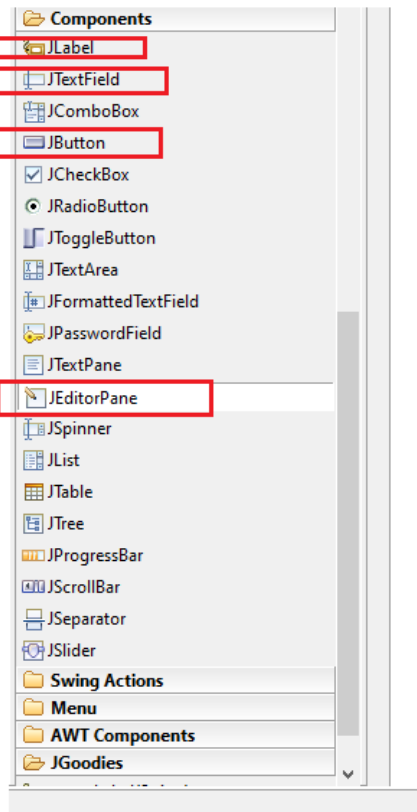
editorPane

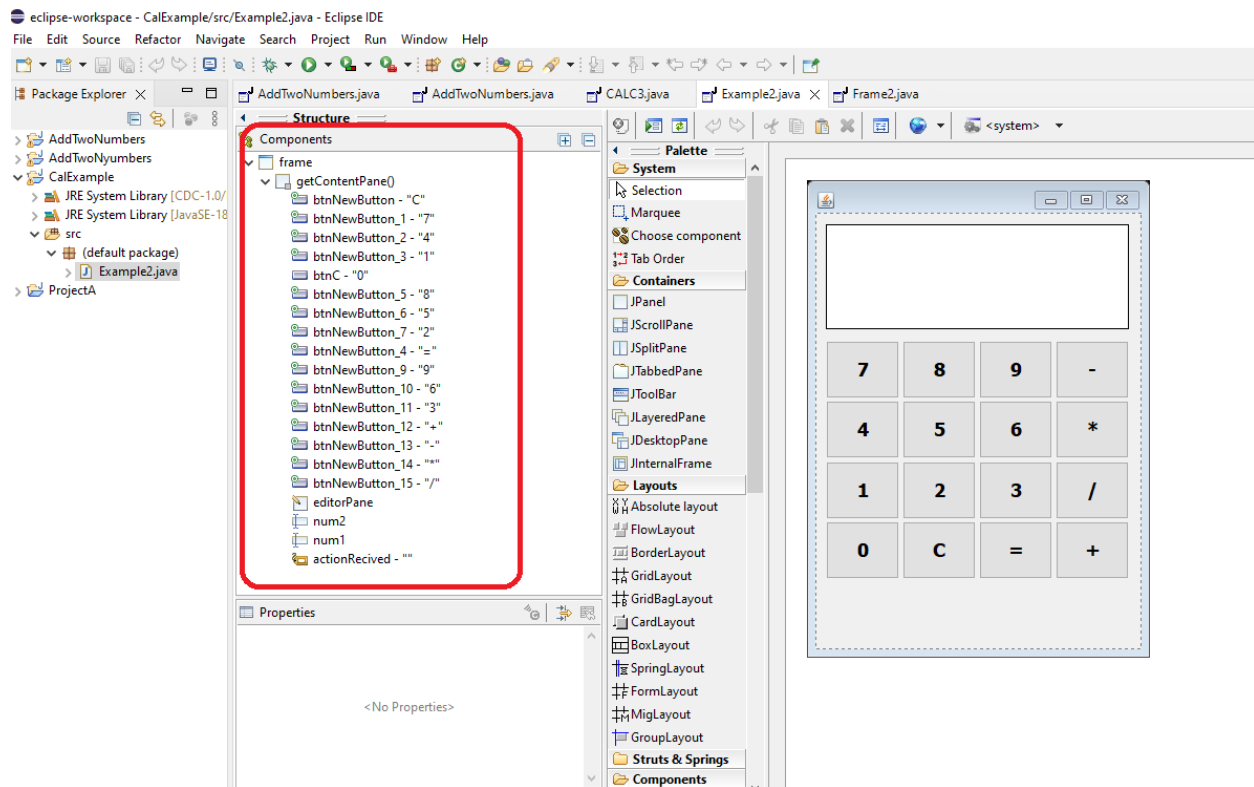
num1

num2

actionRecived

BORDER TYPE :NO BORDER





ΣΤΟΙΧΕΙΑ ΠΟΥ ΘΑ ΧΡΗΣΙΜΟΠΟΙΗΣΟΥΜΕ

1. Absolut layout
 2. JTextField / η μεταβλητές μας είναι num1 και num2
 3. JButton
 4. JEditorPane / η μεταβλητή μας είναι: editorPane
 5. JLabel / actionPerformed
-

```

import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JTextField;
import java.awt.Font;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JEditorPane;
import javax.swing.border.LineBorder;
import java.awt.Color;
import javax.swing.SwingConstants;
import javax.swing.JLabel;

public class Example2 {

    private JFrame frame;
    private JTextField num2;
    private JTextField num1;
    private JEditorPane editorPane;
    private JButton btnNewButton;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Example2 window = new Example2();
                    window.frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the application.
     */
    public Example2() {
        initialize();
    }

    /**
     * Initialize the contents of the frame.
     */
    private void initialize() {
        frame = new JFrame();
        frame.setBounds(100, 100, 327, 455);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.getContentPane().setLayout(null);

        btnNewButton = new JButton("C");
        btnNewButton.addActionListener(new ActionListener() {

```

```

        public void actionPerformed(ActionEvent e) {
            num2.setText(null);
            num1.setText(null);
            actionRecived.setText(null);
        }
    });
    btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
    btnNewButton.setBounds(83, 294, 70, 55);
    frame.getContentPane().add(btnNewButton);

    JButton btnNewButton_1 = new JButton("7");
    btnNewButton_1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            num1.setText(num1.getText()+7);
        }
    });
    btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 18));
    btnNewButton_1.setBounds(10, 122, 70, 55);
    frame.getContentPane().add(btnNewButton_1);

    JButton btnNewButton_2 = new JButton("4");
    btnNewButton_2.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            num1.setText(num1.getText()+4);
        }
    });
    btnNewButton_2.setFont(new Font("Tahoma", Font.BOLD, 18));
    btnNewButton_2.setBounds(10, 179, 70, 55);
    frame.getContentPane().add(btnNewButton_2);

    JButton btnNewButton_3 = new JButton("1");
    btnNewButton_3.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            num1.setText(num1.getText()+1);
        }
    });
    btnNewButton_3.setFont(new Font("Tahoma", Font.BOLD, 18));
    btnNewButton_3.setBounds(10, 237, 70, 55);
    frame.getContentPane().add(btnNewButton_3);

    JButton btnC = new JButton("0");
    btnC.setFont(new Font("Tahoma", Font.BOLD, 18));
    btnC.setBounds(10, 294, 70, 55);
    frame.getContentPane().add(btnC);

    JButton btnNewButton_5 = new JButton("8");
    btnNewButton_5.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            num1.setText(num1.getText()+8);
        }
    });

```

```

});
btnNewButton_5.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_5.setBounds(83, 122, 70, 55);
frame.getContentPane().add(btnNewButton_5);

JButton btnNewButton_6 = new JButton("5");
btnNewButton_6.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num1.setText(num1.getText()+5);
    }
});
btnNewButton_6.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_6.setBounds(83, 179, 70, 55);
frame.getContentPane().add(btnNewButton_6);

JButton btnNewButton_7 = new JButton("2");
btnNewButton_7.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num1.setText(num1.getText()+2);
    }
});
btnNewButton_7.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_7.setBounds(83, 237, 70, 55);
frame.getContentPane().add(btnNewButton_7);

JButton btnNewButton_4 = new JButton("=");
btnNewButton_4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        double one=Double.parseDouble(num1.getText());
        double two=Double.parseDouble(num2.getText());
        if (actionRecived.getText().equals("add"))
        {
            num2.setText(String.valueOf(one+two));
        }
        if (actionRecived.getText().equals("sub"))
        {
            num2.setText(String.valueOf(one-two));
        }
        if (actionRecived.getText().equals("multi"))
        {
            num2.setText(String.valueOf(one*two));
        }
        if (actionRecived.getText().equals("div"))
        {
            num2.setText(String.valueOf(one/two));
        }
    }
});

```

```

    }
}

});
btnNewButton_4.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_4.setBounds(156, 294, 70, 55);
frame.getContentPane().add(btnNewButton_4);

JButton btnNewButton_9 = new JButton("9");
btnNewButton_9.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num1.setText(num1.getText()+9);
    }
});
btnNewButton_9.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_9.setBounds(156, 122, 70, 55);
frame.getContentPane().add(btnNewButton_9);

JButton btnNewButton_10 = new JButton("6");
btnNewButton_10.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num1.setText(num1.getText()+6);
    }
});
btnNewButton_10.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_10.setBounds(156, 179, 70, 55);
frame.getContentPane().add(btnNewButton_10);

JButton btnNewButton_11 = new JButton("3");
btnNewButton_11.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num1.setText(num1.getText()+3);
    }
});
btnNewButton_11.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_11.setBounds(156, 237, 70, 55);
frame.getContentPane().add(btnNewButton_11);

JButton btnNewButton_12 = new JButton("+");
btnNewButton_12.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num2.setText(num1.getText());
        num1.setText(null);
        actionRecived.setText("add");
    }
});
btnNewButton_12.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_12.setBounds(229, 294, 70, 55);
frame.getContentPane().add(btnNewButton_12);

```

```

JButton btnNewButton_13 = new JButton("-");
btnNewButton_13.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num2.setText(num1.getText());
        num1.setText(null);
        actionRecived.setText("sub");
    }
});
btnNewButton_13.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_13.setBounds(229, 122, 70, 55);
frame.getContentPane().add(btnNewButton_13);

JButton btnNewButton_14 = new JButton("*");
btnNewButton_14.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num2.setText(num1.getText());
        num1.setText(null);
        actionRecived.setText("multi");
    }
});
btnNewButton_14.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_14.setBounds(229, 179, 70, 55);
frame.getContentPane().add(btnNewButton_14);

JButton btnNewButton_15 = new JButton("/");
btnNewButton_15.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        num2.setText(num1.getText());
        num1.setText(null);
        actionRecived.setText("div");
    }
});
btnNewButton_15.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton_15.setBounds(229, 237, 70, 55);
frame.getContentPane().add(btnNewButton_15);

editorPane = new JEditorPane();
editorPane.setFont(new Font("Tahoma", Font.BOLD, 18));
editorPane.setBorder(new LineBorder(new Color(0, 0, 0)));
editorPane.setEditable(false);
editorPane.setBounds(10, 11, 289, 100);
frame.getContentPane().add(editorPane);

num2 = new JTextField();
num2.setHorizontalAlignment(SwingConstants.RIGHT);
num2.setFont(new Font("Tahoma", Font.BOLD, 18));
num2.setBorder(null);

```

```
num2.setBounds(23, 66, 264, 36);
frame.getContentPane().add(num2);
num2.setColumns(10);

num1 = new JTextField();
num1.setHorizontalAlignment(SwingConstants.RIGHT);
num1.setFont(new Font("Tahoma", Font.BOLD, 15));
num1.setBorder(null);
num1.setBounds(47, 23, 240, 36);
frame.getContentPane().add(num1);
num1.setColumns(10);
```

«ΕΔΩ ΣΒΗΝΟΥΜΕ ΤΟ JLabel και αφήνουμε μόνο το *actionRecived*»

```
actionRecived = new JLabel("");
actionRecived.setFont(new Font("Tahoma", Font.BOLD, 18));
actionRecived.setBounds(10, 360, 158, 43);
frame.getContentPane().add(actionRecived);
}
private JLabel actionRecived;
}
```