

# CALCULATOR

Java “awt” and “swing”

# Description of the calculator.

A calculator is a device that performs arithmetic operations on numbers. The simplest calculators can do only addition, subtraction, multiplication, and division.

Button of the Calculator.

MC: Button :Memory Clear

M+: Memory Add

M-:Memory Clear.

MR: Memory Recall.



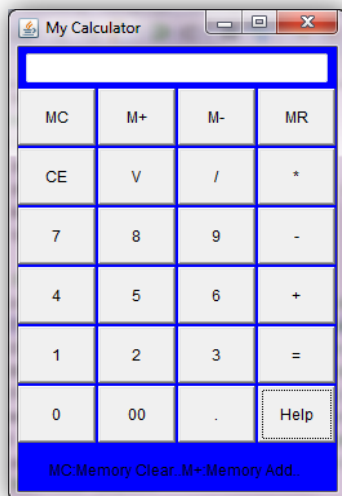
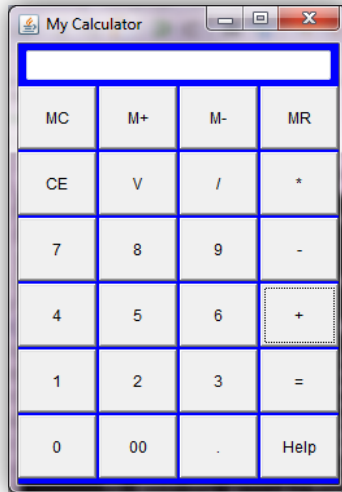
# Contents

---

- ✓ Java awt calculator.
- ✓ Java swing calculator.

# Java awt calculator.

---



## Code of java awt calculator.

```
import java.awt.*; // Import
java Awt all classes
import java.awt.event.*; //
Import all awt.event...
```

```
class Calculator extends Frame
implements ActionListener {
    //Create button variables
    Button comminas;
    Button comdivide;
    Button comequal;
    Button comclear;
    Button complas;
    Button commulti;
    Button commc;
    Button comMplas;
    Button comMminas;
    Button mula;
    Button exiter;
    Button memo;
    Button dasama;
    Button num1, num2, num3,
num4, num5, num6, num7,
num8,      num9, num0;
    Button num00;
    //make a text object...
    TextField t = new
TextField("", 35);
    String st; //Variable for add
a numer
    String st1 = ""; //variable
which display in text feilds.
    double make1, make2,
answer;
    String operation, no1, no2,
total, madd;
```

```
//Code for create the Frame
Calculator() { //call the
constractor.
```

```
    setTitle("My
Calculator");//give name for
the calculator Form.
```

```
    setSize(300, 440); // Make
the size of the Frame
```

```
    setBackground(Color.blue);
    ;// Add colour to the
background of the Frame...
```

```
    setVisible(true); //Code for
display the form which we
created above.
```

```
    Panel p1 = new Panel();//
make a new panel
```

```
    add(p1,
BorderLayout.NORTH); //add
panel to the Form in north
side
```

```
    p1.add(t); //add our text
feild to the panel
    //Make Buttons object
```

```
    commc = new
Button("MC");// Memory
Clear
```

```
comMplas = new  
Button("M+");//Memory add
```

```
comMminas = new  
Button("M-");//Memory  
remove
```

```
memo = new  
Button("MR");//Memory  
Recall
```

```
comclear = new  
Button("CE");// clear every  
thing.
```

```
comdivide = new  
Button("/");  
commulti = new  
Button("*");  
num7 = new Button("7");  
num8 = new Button("8");  
num9 = new Button("9");  
comminas = new  
Button("-");  
num4 = new Button("4");  
num5 = new Button("5");  
num6 = new Button("6");  
complas = new  
Button("+");  
num1 = new Button("1");  
num2 = new Button("2");  
num3 = new Button("3");  
comequal = new  
Button("=");  
num0 = new Button("0");  
num00 = new  
Button("00");  
dasama = new Button(".");
```

```
exiter = new  
Button("Help");// add help  
button to the panel....
```

```
mula = new Button("V");  
//Create a panel  
Panel p = new Panel();  
//Place the panel on  
Frame.
```

```
add(p,  
BorderLayout.CENTER);  
//Add buttons to the  
Panel.
```

```
p.add(commc);  
p.add(comMplas);  
p.add(comMminas);  
p.add(memo);  
p.add(comclear);  
p.add(mula);  
p.add(comdivide);  
p.add(commulti);  
p.add(num7);  
p.add(num8);  
p.add(num9);  
p.add(comminas);  
p.add(num4);  
p.add(num5);  
p.add(num6);  
p.add(complas);  
p.add(num1);  
p.add(num2);  
p.add(num3);  
p.add(comequal);  
p.add(num0);  
p.add(num00);  
p.add(dasama);  
p.add(exiter);  
//Use action lisner....
```

```

num1.addActionListener(this);
num2.addActionListener(this);
num3.addActionListener(this);
num4.addActionListener(this);
num5.addActionListener(this);
num6.addActionListener(this);
num7.addActionListener(this);
num8.addActionListener(this);
num9.addActionListener(this);
num0.addActionListener(this);
num00.addActionListener(this
);
dasama.addActionListener(this
);
comminas.addActionListener(t
his);
complas.addActionListener(thi
s);
comequal.addActionListener(t
his);
comdivide.addActionListener(t
his);

```

```

commulti.addActionListener(t
his);

comMplas.addActionListener(t
his);

comMminas.addActionListener(
r(this);

memo.addActionListener(this);

comclear.addActionListener(th
is);

exiter.addActionListener(this);
    addWindowListener(new
WindowAdapter() { // Add
WindowListener to the Frame,

        public void
windowClosing(WindowEvent
we) // Make a method for
closing window .
        {
            System.exit(3); // Exit
from the window (add int
value to parameter list);

        }
    });

    //create a grid Layout
    GridLayout g = new
GridLayout(0, 4, 2, 2);
    //add grid lay out to the
panael
    p.setLayout(g);

```

```

    }

    public static void
    main(String args[]) { //main
    method..

        new Calclater(); //call
    the constractor.

    }

    //create an action
    Performed
    public void
    actionPerformed(ActionEvent
    e) {
        Object o = e.getSource();
    //make a object for recognized
    buttons

        // number 1 click
        if (o.equals(num1)) {
            st = num1.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 2 click..
        if (o.equals(num2)) {
            st = num2.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 3 click..
        if (o.equals(num3)) {
            st = num3.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }

        //if number 4 click..
        if (o.equals(num4)) {
            st = num4.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 5 click..
        if (o.equals(num5)) {
            st = num5.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 6 click..
        if (o.equals(num6)) {
            st = num6.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 7 click..
        if (o.equals(num7)) {
            st = num7.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 8 click..
        if (o.equals(num8)) {
            st = num8.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 9 click..
        if (o.equals(num9)) {
            st = num9.getLabel();
            st1 = st1 + st;
            t.setText(st1);
        }
        //if number 0 click..

```



```

if (o.equals(num0)) {
    st = num0.getLabel();
    st1 = st1 + st;
    t.setText(st1);
}
//if number 00 click..
if (o.equals(num00)) {
    st = num00.getLabel();
    st1 = st1 + st;
    t.setText(st1);
}
//if number . click..

if (o.equals(dasama)) {
    st = dasama.getLabel();
    st1 = st1 + st;
    t.setText(st1);
}
// if enter the + mark//
if (o.equals(complas)) {
    no1 = t.getText();
    make1 =
Double.parseDouble(no1);
    operation =
complas.getLabel();
    t.setText("");
    makesero();
}
// if enter the - mark//
if (o.equals(comminas)) {
    no1 = t.getText();
    make1 =
Double.parseDouble(no1);
    operation =
comminas.getLabel();
    t.setText("");
    makesero();
}
// if enter the / mark//

```

```

if (o.equals(comdivide)) {
    no1 = t.getText();
    make1 =
Double.parseDouble(no1);
    operation =
comdivide.getLabel();
    t.setText("");
    makesero();
}
// if enter the * mark//
if (o.equals(commulti)) {
    no1 = t.getText();
    make1 =
Double.parseDouble(no1);
    operation =
commulti.getLabel();
    t.setText("");
    makesero();
}
// if enter the M+ mark//
if (o.equals(comMplus)) {
    madd = t.getText();
Add text to memmory..
}
// if enter the M- mark//
if (o.equals(commMminas))
{
    madd = "";
}
// number MR click
if (o.equals(memo)) {
    st = madd;
    st1 = st1 + st;
    t.setText(st1);
}
// if enter the CE mark
(clear every thing);

```

```

        if (o.equals(comclear)) {
            st = "";
            st1 = "";
            t.setText("");
        }
        // if enter the Help mark
        (clear every thing);
        if (o.equals(exiter)) {
            //Create a panel
            Panel h1 = new Panel();
            //Place the panel on
            Frame.
                add(h1,
                    BorderLayout.SOUTH);
            //Make labels .
            Label label1 = new
            Label("MC:Memory
            Clear..M+:Memory Add.. ",
            Label.CENTER);
            Label label2 = new
            Label("M -:Memory Clear..
            MR:Memory Recall",
            Label.LEFT);
            h1.add(label1);//add
            label to panel

            h1.add(label2);
            250,340(300, 540);//
            Resize the calculator.....

        }

        // if enter the = mark//
        if (o.equals(comequal)) {
            no2 = t.getText();//take
            the value of text.

```

```

        make2 =
        Double.parseDouble(no2);//co
        nvert the value as a double
        number.

```

```

        if (operation == "+")
        { //if add a + mark button.

```

```

            add();//call the add
            method.

```

```

        }
        if (operation == "-") {
            minas();//call the
            minas method .

```

```

        }
        if (operation == "/") {
            devide();//call the
            devide method.

```

```

        }
        if (operation == "*")
        { //call the * method.

```

```

            multify();
        }
    }
}

```

```

        void add() { //create a
        method for making addition.

```

```

            answer = make1 + make2;
            totel =
            String.valueOf(answer);
            t.setText(totel);
            makesero();

```

```

    }

    void minas() { //create a
methord for minas.

        answer = make1 - make2;
        totel =
String.valueOf(answer);
        t.setText(totel);
        makesero();
    }

```

```

    void devide() { //create a
methord for devide.

```

```

        answer = make1 / make2;
        totel =
String.valueOf(answer);
        t.setText(totel);
        makesero();
    }

```

```

    void multify() { //create a
methord for *.

```

```

        answer = make1 * make2;
        totel =
String.valueOf(answer);
        t.setText(totel);
        makesero();
    }
    //make st1 and st make 0;

    void makesero() {
        st1 = "";
        st = "";
    }
}

```

# Java swing calculator.

---



## Code of java swing calculator.

```
package cal;

public class Calcu extends
javax.swing.JFrame {
    String sim;
    double getfirst;
    double memo;

    public Calcu() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold
    defaultstate="collapsed"
    desc="Generated Code">
    private void
    initComponents() {

        jPanel1 = new
        javax.swing.JPanel();
        jTextField1 = new
        javax.swing.JTextField();
        jButton1 = new
        javax.swing.JButton();
        jButton3 = new
        javax.swing.JButton();
        jButton4 = new
        javax.swing.JButton();
        jButton5 = new
        javax.swing.JButton();
        jButton6 = new
        javax.swing.JButton();
        jButton7 = new
        javax.swing.JButton();

        jButton8 = new
        javax.swing.JButton();
        jButton9 = new
        javax.swing.JButton();
        jButton10 = new
        javax.swing.JButton();
        jButton11 = new
        javax.swing.JButton();
        jButton12 = new
        javax.swing.JButton();
        jButton13 = new
        javax.swing.JButton();
        jButton14 = new
        javax.swing.JButton();
        jButton15 = new
        javax.swing.JButton();
        jButton16 = new
        javax.swing.JButton();
        jButton17 = new
        javax.swing.JButton();
        jButton18 = new
        javax.swing.JButton();
        jButton19 = new
        javax.swing.JButton();
        jButton20 = new
        javax.swing.JButton();
        jButton21 = new
        javax.swing.JButton();
        jButton22 = new
        javax.swing.JButton();
        jButton23 = new
        javax.swing.JButton();
        jButton27 = new
        javax.swing.JButton();
        jPanel2 = new
        javax.swing.JPanel();
```

```

setDefaultCloseOperation(java
x.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Calculator");

    jPanel1.setLayout(new
org.netbeans.lib.awtextra.AbsoluteLayout());

    jTextField1.setFont(new
java.awt.Font("Segoe UI", 1,
14)); // NOI18N

jTextField1.setForeground(new
java.awt.Color(0, 51, 204));

jTextField1.setHorizontalAlignment
(javax.swing.JTextField.RIGHT);
    jPanel1.add(jTextField1,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 10, 270,
40));

jButton1.setForeground(new
java.awt.Color(255, 0, 0));

jButton1.setText("Backspace");

jButton1.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

```

```

jButton1ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton1,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 130, 60,
50));

jButton3.setForeground(new
java.awt.Color(255, 0, 0));
    jButton3.setText("C");

jButton3.setPreferredSize(new
java.awt.Dimension(47, 23));

jButton3.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton3,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 130, 60,
50));

jButton4.setForeground(new
java.awt.Color(255, 0, 0));

```

```
        jButton4.setText("MR");
        jPanel1.add(jButton4,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(230, 70, 60,
50));
```

```
jButton5.setForeground(new
java.awt.Color(255, 0, 0));
        jButton5.setText("MC");
```

```
jButton5.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton5ActionPerformed(evt);
    }
});
        jPanel1.add(jButton5,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 70, 60,
50));
```

```
jButton6.setForeground(new
java.awt.Color(255, 0, 0));
        jButton6.setText("M-");
```

```
jButton6.addActionListener(new
java.awt.event.ActionListener()
{
```

```
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton6ActionPerformed(evt);
    }
});
```

```
        jPanel1.add(jButton6,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 70, 60,
50));
```

```
jButton7.setForeground(new
java.awt.Color(255, 0, 0));
        jButton7.setText("M+");
```

```
jButton7.setPreferredSize(new
java.awt.Dimension(47, 23));
```

```
jButton7.addActionListener(new
java.awt.event.ActionListener()
{
```

```
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton7ActionPerformed(evt);
    }
});
```

```
        jPanel1.add(jButton7,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 70, 60,
50));
```

```

jButton8.setForeground(new
java.awt.Color(0, 51, 204));
jButton8.setText("7");

jButton8.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton8ActionPerformed(evt);
    }
});
jPanel1.add(jButton8,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 190, 60,
50));

jButton9.setForeground(new
java.awt.Color(0, 51, 204));
jButton9.setText("8");

jButton9.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton9ActionPerformed(evt);
    }
});

```

```

jPanel1.add(jButton9,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 190, 60,
50));

jButton10.setForeground(new
java.awt.Color(0, 51, 204));
jButton10.setText("9");

jButton10.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton10ActionPerformed(evt);
    }
});
jPanel1.add(jButton10,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 190, 60,
50));

jButton11.setForeground(new
java.awt.Color(0, 51, 204));
jButton11.setText("4");

jButton11.addActionListener(new
java.awt.event.ActionListener()
{

```



```
        public void  
        actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jButton11ActionPerformed(evt);  
        }  
    }  
};  
jPanel1.add(jButton11,
```

```
new  
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 250, 60,  
50));
```

```
jButton12.setForeground(new  
java.awt.Color(0, 51, 204));  
jButton12.setText("5");
```

```
jButton12.addActionListener(new  
java.awt.event.ActionListener()  
{
```

```
    public void  
    actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton12ActionPerformed(evt);  
    }  
};  
jPanel1.add(jButton12,
```

```
new  
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 250, 60,  
50));
```

```
jButton13.setForeground(new  
java.awt.Color(0, 51, 204));  
jButton13.setText("6");
```

```
jButton13.addActionListener(new  
java.awt.event.ActionListener()  
{
```

```
    public void  
    actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton13ActionPerformed(evt);  
    }  
};  
jPanel1.add(jButton13,
```

```
new  
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 250, 60,  
50));
```

```
jButton14.setForeground(new  
java.awt.Color(0, 51, 204));  
jButton14.setText("1");
```

```
jButton14.addActionListener(new  
java.awt.event.ActionListener()  
{
```

```
    public void  
    actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        jButton14ActionPerformed(evt);  
    }  
};
```

```

        }
    });
    jPanel1.add(jButton14,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 310, 60,
50));

jButton15.setForeground(new
java.awt.Color(0, 51, 204));
jButton15.setText("2");

jButton15.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton15ActionPerformed(evt);
    }
});
jPanel1.add(jButton15,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(90, 310, 60,
50));

jButton16.setForeground(new
java.awt.Color(0, 51, 204));
jButton16.setText("3");

jButton16.addActionListener(new

```

```

java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton16ActionPerformed(evt);
    }
});
jPanel1.add(jButton16,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(160, 310, 60,
50));

jButton17.setForeground(new
java.awt.Color(0, 51, 204));
jButton17.setText("0");

jButton17.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton17ActionPerformed(evt);
    }
});
jPanel1.add(jButton17,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(20, 370, 60,
50));

```

```

jButton18.setForeground(new
java.awt.Color(0, 51, 204));
    jButton18.setText("00");

jButton18.addActionListener(n
ew
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

jButton18ActionPerformed(ev
t);
    }
    });
    jPanel1.add(jButton18,
new
org.netbeans.lib.awtextra.Abs
oluteConstraints(90, 370, 60,
50));

```

```

jButton19.setForeground(new
java.awt.Color(0, 51, 204));
    jButton19.setText(".");

jButton19.addActionListener(n
ew
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

```

```

jButton19ActionPerformed(ev
t);
    }
    });
    jPanel1.add(jButton19,
new
org.netbeans.lib.awtextra.Abs
oluteConstraints(160, 370, 60,
50));

```

```

jButton20.setForeground(new
java.awt.Color(255, 0, 0));
    jButton20.setText("/");

jButton20.addActionListener(n
ew
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

```

```

jButton20ActionPerformed(ev
t);
    }
    });
    jPanel1.add(jButton20,
new
org.netbeans.lib.awtextra.Abs
oluteConstraints(160, 130, 60,
50));

```

```

jButton21.setForeground(new
java.awt.Color(255, 0, 0));
    jButton21.setText("*");

```

```

jButton21.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton21ActionPerformed(evt);
    }
});
jPanel1.add(jButton21,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(230, 130, 60,
50));

jButton22.setForeground(new
java.awt.Color(255, 0, 0));
jButton22.setText("-");

jButton22.addActionListener(new
java.awt.event.ActionListener()
{
    public void
actionPerformed(java.awt.event.ActionEvent evt) {

jButton22ActionPerformed(evt);
    }
});
jPanel1.add(jButton22,
new

```

```

org.netbeans.lib.awtextra.AbsoluteConstraints(230, 190, 60,
50));

```

```

jButton23.setForeground(new
java.awt.Color(255, 0, 0));
jButton23.setText("+");

```

```

jButton23.addActionListener(new
java.awt.event.ActionListener()
{

```

```

    public void
actionPerformed(java.awt.event.ActionEvent evt) {

```

```

jButton23ActionPerformed(evt);

```

```

    }

```

```

});

```

```

jPanel1.add(jButton23,
new
org.netbeans.lib.awtextra.AbsoluteConstraints(230, 250, 60,
50));

```

```

jButton27.setForeground(new
java.awt.Color(255, 0, 0));
jButton27.setText("=");

```

```

jButton27.addActionListener(new
java.awt.event.ActionListener()
{

```

```
        public void  
        actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
        jButton27ActionPerformed(ev  
t);  
        }
```

```
    });  
    jPanel1.add(jButton27,  
new  
org.netbeans.lib.awtextra.Abs  
oluteConstraints(230, 310, 60,  
110));
```

```
        jPanel2.setLayout(new  
org.netbeans.lib.awtextra.Abs  
oluteLayout());
```

```
        jPanel1.add(jPanel2, new  
org.netbeans.lib.awtextra.Abs  
oluteConstraints(0, 0, -1, -1));
```

```
        javax.swing.GroupLayout  
layout = new  
javax.swing.GroupLayout(getC  
ontentPane());
```

```
        getContentPane().setLayout(la  
yout);
```

```
        layout.setHorizontalGroup(
```

```
        layout.createParallelGroup(jav  
ax.swing.GroupLayout.Alignm  
ent.LEADING)
```

```
            .addComponent(jPanel  
1,  
javax.swing.GroupLayout.PREF  
ERRED_SIZE, 314,
```

```
        javax.swing.GroupLayout.PREF  
ERRED_SIZE)
```

```
    );  
    layout.setVerticalGroup(
```

```
        layout.createParallelGroup(jav  
ax.swing.GroupLayout.Alignm  
ent.LEADING)
```

```
            .addGroup(layout.creat  
eSequentialGroup())  
            .addComponent(jPan
```

```
el1,  
javax.swing.GroupLayout.PREF  
ERRED_SIZE, 462,
```

```
        javax.swing.GroupLayout.PREF  
ERRED_SIZE)
```

```
            .addContainerGap(jav  
ax.swing.GroupLayout.DEFAUL  
T_SIZE, Short.MAX_VALUE))
```

```
    );
```

```
        java.awt.Dimension  
screenSize =  
java.awt.Toolkit.getDefaultToo  
lkit().getScreenSize();
```

```
        setBounds((screenSize.width-  
330)/2, (screenSize.height-  
480)/2, 330, 480);
```

```
    } // </editor-fold>
```

```
        private void  
jButton17ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
        jTextField1.setText(jTextField1  
.getText()+"0");  
    }
```

```
private void  
jButton14ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"1");  
}
```

```
private void  
jButton15ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"2");  
}
```

```
private void  
jButton16ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"3");  
}
```

```
private void  
jButton11ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"4");  
}
```

```
private void  
jButton12ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"5");  
}
```

```
private void  
jButton13ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"6");  
}
```

```
private void  
jButton8ActionPerformed(java  
.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"7");  
}
```

```
private void  
jButton9ActionPerformed(java  
.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"8");  
}
```

```
private void  
jButton10ActionPerformed(jav  
a.awt.event.ActionEvent evt) {
```

```
jTextField1.setText(jTextField1  
.getText()+"9");  
}
```

```

private void
jButton3ActionPerformed(java
.awt.event.ActionEvent evt) {
    jTextField1.setText("");
}

```

```

private void
jButton1ActionPerformed(java
.awt.event.ActionEvent evt) {
    String s=jTextField1.getText();
    String
    s2=s.substring(0,s.length()-1);
    jTextField1.setText(s2);
}

```

```

private void
jButton23ActionPerformed(jav
a.awt.event.ActionEvent evt) {

    getfirst=Double.parseDouble(j
    TextField1.getText().trim());
    jTextField1.setText("");
    sim="+";
}

```

```

private void
jButton27ActionPerformed(jav
a.awt.event.ActionEvent evt) {
    double
    get2=Double.parseDouble(jTe
    xtField1.getText().trim());
    if(sim.equals("+")){
        double tot=getfirst+get2;
        jTextField1.setText(""+tot);

    }else if(sim.equals("-")){
        double tot=getfirst-get2;
        jTextField1.setText(""+tot);
    }
}

```

```

    }else if(sim.equals("*")){
        double tot=getfirst*get2;
        jTextField1.setText(""+tot);
    }
}

```

```

    }else{
        double tot=getfirst / get2;
        jTextField1.setText(""+tot);
    }
}

```

```

private void
jButton22ActionPerformed(jav
a.awt.event.ActionEvent evt) {

    getfirst=Double.parseDouble(j
    TextField1.getText().trim());
    jTextField1.setText("");
    sim="-";
}

```

```

private void
jButton21ActionPerformed(jav
a.awt.event.ActionEvent evt) {

    getfirst=Double.parseDouble(j
    TextField1.getText().trim());
    jTextField1.setText("");
    sim="*";
}

```

```

private void
jButton20ActionPerformed(jav
a.awt.event.ActionEvent evt) {

    getfirst=Double.parseDouble(j
    TextField1.getText().trim());
}

```

```

        jTextField1.setText("");
        sim="/";
    }

    private void
    jButton18ActionPerformed(java
    a.awt.event.ActionEvent evt) {

        jTextField1.setText(jTextField1
        .getText()+"00");
    }

    private void
    jButton5ActionPerformed(java
    a.awt.event.ActionEvent evt) {

    }

    private void
    jButton7ActionPerformed(java
    a.awt.event.ActionEvent evt) {
        // TODO add your handling
        code here:
    }

    private void
    jButton6ActionPerformed(java
    a.awt.event.ActionEvent evt) {
        // TODO add your handling
        code here:
    }

    private void
    jButton19ActionPerformed(java
    a.awt.event.ActionEvent evt) {
        jTextField1.setText(jTextField1
        .getText()+".");
    }

```

```

    /**
     * @param args the
     command line arguments
     */
    public static void
    main(String args[]) {

        java.awt.EventQueue.invokeLater
        (new Runnable() {
            public void run() {
                new
                Calcu().setVisible(true);
            }
        });

        // Variables declaration - do
        not modify
        private javax.swing.JButton
        jButton1;
        private javax.swing.JButton
        jButton10;
        private javax.swing.JButton
        jButton11;
        private javax.swing.JButton
        jButton12;
        private javax.swing.JButton
        jButton13;
        private javax.swing.JButton
        jButton14;
        private javax.swing.JButton
        jButton15;
        private javax.swing.JButton
        jButton16;
        private javax.swing.JButton
        jButton17;

```



```
    private javax.swing.JButton  
jButton18;  
    private javax.swing.JButton  
jButton19;  
    private javax.swing.JButton  
jButton20;  
    private javax.swing.JButton  
jButton21;  
    private javax.swing.JButton  
jButton22;  
    private javax.swing.JButton  
jButton23;  
    private javax.swing.JButton  
jButton27;  
    private javax.swing.JButton  
jButton3;  
    private javax.swing.JButton  
jButton4;  
    private javax.swing.JButton  
jButton5;  
    private javax.swing.JButton  
jButton6;  
    private javax.swing.JButton  
jButton7;  
    private javax.swing.JButton  
jButton8;  
    private javax.swing.JButton  
jButton9;  
    private javax.swing.JPanel  
jPanel1;  
    private javax.swing.JPanel  
jPanel2;  
    private  
javax.swing.JTextField  
jTextField1;  
  
}
```

