**A simple Calculator Using Java**

**import** java.awt.event.\*;

**import** java.awt.\*;

**import** javax.swing.\*;

**public** **class** MyFirst **extends** JFrame {

JButton add,sub, mul,div;

JTextField num1,num2;

JLabel result, enter1, enter2;

**public** MyFirst(){

setLayout(**new** GridBagLayout());

GridBagConstraints c = **new** GridBagConstraints();

enter1 = **new** JLabel("frist");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=0;

c.gridy=0;

add(enter1,c);

num1 = **new** JTextField(12);

c.fill =GridBagConstraints.*HORIZONTAL*;

c.gridx=1;

c.gridy=0;

c.gridwidth = 3;

add(num1,c);

enter2 = **new** JLabel("second");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=0;

c.gridy=1;

c.gridwidth=1;

add(enter2,c);

num2 = **new** JTextField(12);

c.fill =GridBagConstraints.*HORIZONTAL*;

c.gridx=1;

c.gridy=1;

c.gridwidth = 3;

add(num2,c);

add = **new** JButton("+");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=1;

c.gridy=4;

c.gridwidth=1;

add(add,c);

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sub = **new** JButton("-");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx= 2;

c.gridy=4;

c.gridwidth=1;

add(sub,c);

mul = **new** JButton("\*");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=3;

c.gridy=4;

c.gridwidth=1;

add(mul,c);

div = **new** JButton("/");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=4;

c.gridy=4;

c.gridwidth=1;

add(div,c);

result = **new** JLabel("");

c.fill = GridBagConstraints.*HORIZONTAL*;

c.gridx=1;

c.gridy=10;

c.gridwidth=4;

add(result,c);

event a = **new** event();

add.addActionListener(a);

sub.addActionListener(a);

mul.addActionListener(a);

div.addActionListener(a);

}

**public** **class** event **implements** ActionListener{

**public** **void** actionPerformed(ActionEvent a){

**double** number1,number2;

**try**{

number1 = Double.*parseDouble*(num1.getText());

}**catch**(NumberFormatException e){

result.setText("illegal data to in the frist feild");

result.setForeground(Color.*red*);

**return**;

}

**try**{

number2 = Double.*parseDouble*(num2.getText());

}**catch**(NumberFormatException e){

result.setText("illegal data to in the frist feild");

result.setForeground(Color.*RED*);

**return**;

}

String op =a.getActionCommand();

**if**(op.equals("+")){

**double** sum = number1 + number2;

result.setText(""+ sum);

result.setForeground(Color.*RED*);

}

**else** **if**(op.equals("-")){

**double** diff = number1 - number2;

result.setText(""+diff);

result.setForeground(Color.*RED*);

}

**else** **if**(op.equals("\*")){

**double** factor = number1 \* number2;

result.setText(""+factor);

result.setForeground(Color.*RED*);

}

**else** **if**(op.equals("/")){

**if**(number2==0){

result.setText("Cannot devide number by 0");

result.setForeground(Color.*RED*);

}**else**{

**double** quatient = number1 / number2;

result.setText(""+quatient);

result.setForeground(Color.*RED*);

}

}

}

}

**public** **static** **void** main(String args[]){

MyFirst gui = **new** MyFirst();

gui.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);

gui.setVisible(**true**);

gui.setSize(500,500);

gui.setTitle("My first program");

}

}