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/*
Class of Calculator
*/
package CalculatorPackage;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.border.Border;
public class Calculator implements ActionListener{
       JFrame frame;
       JTextField textfield;
       JButton[] numberButtons = new JButton[10];
       JButton[] functionButtons = new JButton[9];
       JButton addButton, subButton, mulButton, divButton;
       JButton decButton, equButton, delButton, clrButton, negButton;
       JPanel panel;
       Font myFont = new Font("Ink Free", Font.BOLD, 30);
       double num1=0,num2=0,result=0;
       char operator;
       Calculator(){
              frame = new JFrame("Calculator");
              frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
              frame.setSize(420, 550);
              frame.setLayout(null);
              textfield = new JTextField();
              textfield.setBounds(50, 25, 300, 50);
              textfield.setFont(myFont);
              textfield.setEditable(false);
```

textfield.setBackground(Color.white);

textfield.setBorder(BorderFactory.createLineBorder(Color.black));

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addButton = new JButton("+");
subButton = new JButton("-");
mulButton = new JButton("*");
divButton = new JButton("/");
decButton = new JButton(".");
equButton = new JButton("=");
delButton = new JButton("Del");
clrButton = new JButton("Clr");
negButton = new JButton("(-)");
functionButtons[0] = addButton;
functionButtons[1] = subButton;
functionButtons[2] = mulButton;
functionButtons[3] = divButton;
functionButtons[4] = decButton;
functionButtons[5] = equButton;
functionButtons[6] = delButton;
functionButtons[7] = clrButton;
functionButtons[8] = negButton;
for(int i = 0; i < 9; i++) {
       functionButtons[i].addActionListener(this);
       functionButtons[i].setFont(myFont);
       functionButtons[i].setFocusable(false);
functionButtons[i].setBorder(BorderFactory.createLineBorder(Color.black));
}
for(int i = 0; i < 10; i++) {
       numberButtons[i] = new JButton(String.valueOf(i));
       numberButtons[i].addActionListener(this);
       numberButtons[i].setFont(myFont);
       numberButtons[i].setFocusable(false);
numberButtons[i].setBorder(BorderFactory.createLineBorder(Color.black));
}
negButton.setBounds(50,430,95,50);
delButton.setBounds(150,430,95,50);
clrButton.setBounds(250,430,95,50);
panel = new JPanel();
panel.setBounds(50, 100, 300, 300);
panel.setLayout(new GridLayout(4,4,10,10));
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panel.add(numberButtons[1]);
       panel.add(numberButtons[2]);
       panel.add(numberButtons[3]);
       panel.add(addButton);
       panel.add(numberButtons[4]);
       panel.add(numberButtons[5]);
       panel.add(numberButtons[6]);
       panel.add(subButton);
       panel.add(numberButtons[7]);
       panel.add(numberButtons[8]);
       panel.add(numberButtons[9]);
       panel.add(mulButton);
       panel.add(decButton);
       panel.add(numberButtons[0]);
       panel.add(equButton);
       panel.add(divButton);
       frame.add(panel);
       frame.add(negButton);
       frame.add(delButton);
       frame.add(clrButton);
       frame.add(textfield);
       frame.setVisible(true);
}
public static void main(String[] args) {
       Calculator calc = new Calculator();
}
@Override
public void actionPerformed(ActionEvent e) {
       for(int i=0;i<10;i++) {
               if(e.getSource() == numberButtons[i]) {
                      textfield.setText(textfield.getText().concat(String.valueOf(i)));
               }
       if(e.getSource()==decButton) {
               textfield.setText(textfield.getText().concat("."));
       }
       if(e.getSource()==addButton) {
               num1 = Double.parseDouble(textfield.getText());
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operator ='+';
       textfield.setText("");
if(e.getSource()==subButton) {
       num1 = Double.parseDouble(textfield.getText());
       operator ='-';
       textfield.setText("");
if(e.getSource()==mulButton) {
       num1 = Double.parseDouble(textfield.getText());
       operator ='*';
       textfield.setText("");
}
if(e.getSource()==divButton) {
       num1 = Double.parseDouble(textfield.getText());
       operator ='/';
       textfield.setText("");
}
if(e.getSource()==equButton) {
       num2=Double.parseDouble(textfield.getText());
       switch(operator) {
       case'+':
               result=num1+num2;
               break;
       case'-':
               result=num1-num2;
               break;
       case'*':
               result=num1*num2;
               break;
       case'/':
               result=num1/num2;
               break;
       textfield.setText(String.valueOf(result));
       num1=result;
if(e.getSource()==clrButton) {
       textfield.setText("");
}
if(e.getSource()==delButton) {
       String string = textfield.getText();
```