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import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
class Calculator implements ActionListener
{
JFrame frame; //Creating object of JFrame class
JTextField t;
JButton b0,b1,b2,b3,b4,b5,b6,b7,b8,b9,bdot,badd,bmul,bsub,bdiv,beq,bclr;
static double a=0,b=0,res=0;
static int op=0;
public void Display()
{
frame=new JFrame();
frame.setTitle("NCET Calculator");
frame.setSize(275,350);
frame.setLayout(null);
frame.setBackground(Color.black);
frame.setResizable(true);
frame.setVisible(true);
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
t=new JTextField();
t.setBounds(30,10,165,35);
b0=new JButton("0");
b0.setBounds(30,50,45,40);
b1=new JButton("1");
b1.setBounds(70,50,45,40);
b2=new JButton("2");
b2.setBounds(110,50,45,40);
b3=new JButton("3");
b3.setBounds(150,50,45,40);

b4=new JButton("4");
b4.setBounds(30,90,45,40);
b5=new JButton("5");
b5.setBounds(70,90,45,40);
b6=new JButton("6");
b6.setBounds(110,90,45,40);
b7=new JButton("7");
b7.setBounds(150,90,45,40);
b8=new JButton("8");
b8.setBounds(30,130,45,40);
b9=new JButton("9");
b9.setBounds(70,130,45,40);
bdot=new JButton(".");
bdot.setBounds(110,130,45,40);
badd=new JButton("+");
badd.setBounds(150,130,45,40);
bsub=new JButton("-");
bsub.setBounds(30,170,45,40);
bmul=new JButton("*")
;
bmul.setBounds(70,170,45,40);
bdiv=new JButton("/");
bdiv.setBounds(110,170,45,40);

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beq=new JButton("=");
beq.setBounds(150,170,45,40);
bclr=new JButton("CLR");
bclr.setBounds(30,210,165,40);
frame.add(t);
frame.add(b0);
frame.add(b1);
frame.add(b2);
frame.add(b3);
frame.add(b4);
frame.add(b5);
frame.add(b6);
frame.add(b7);
frame.add(b8);

frame.add(b9);
frame.add(bdot);
frame.add(badd);
frame.add(bsub);
frame.add(bmul);
frame.add(bdiv);
frame.add(beq);
frame.add(bclr);
b0.addActionListener(this);
b1.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);
b4.addActionListener(this);
b5.addActionListener(this);
b6.addActionListener(this);
b7.addActionListener(this);
b8.addActionListener(this);
b9.addActionListener(this);
badd.addActionListener(this);
bsub.addActionListener(this);
bmul.addActionListener(this);
bdiv.addActionListener(this);
bdot.addActionListener(this);
beq.addActionListener(this);
bclr.addActionListener(this); }
public void actionPerformed(ActionEvent e) {
if(e.getSource()==bclr) {
t.setText(""); }
if(e.getSource()==b0) {
t.setText(t.getText().concat("0")); }

if(e.getSource()==b1) {
t.setText(t.getText().concat("1")); }
if(e.getSource()==b2) {
t.setText(t.getText().concat("2")); }
if(e.getSource()==b3) {
t.setText(t.getText().concat("3")); }
if(e.getSource()==b4) {
t.setText(t.getText().concat("4")); }
if(e.getSource()==b5) {

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t.setText(t.getText().concat("5")); }
if(e.getSource()==b6) {
t.setText(t.getText().concat("6")); }
if(e.getSource()==b7) {
t.setText(t.getText().concat("7")); }
if(e.getSource()==b8) {
t.setText(t.getText().concat("8")); }
if(e.getSource()==b9) {
t.setText(t.getText().concat("9")); }

if(e.getSource()==bdot) {
t.setText(t.getText().concat(".")); }
if(e.getSource()==badd) {
a=Double.parseDouble(t.getText());
op=1;
t.setText(""); }
if(e.getSource()==bsub) {
a=Double.parseDouble(t.getText());
op=2;
t.setText(""); }
if(e.getSource()==bmul) {
a=Double.parseDouble(t.getText());
op=3;
t.setText(""); }
if(e.getSource()==bdiv) {
a=Double.parseDouble(t.getText());
op=4;
t.setText(""); }
if(e.getSource()==beq) {
b=Double.parseDouble(t.getText());
switch(op) {
case 1:
t.setText(a+" + " +b+ " = "+(a+b));
break;

case 2:
t.setText(a+" - " +b+ " = "+(a-b));
break;
case 3:
t.setText(a+" * " +b+ " = "+(a*b));
break;
case 4:
t.setText(a+" / " +b+ " = "+(a/b));
break;
} } } }
public class CalculatorSwing
{
public static void main(String[] args)
{
Calculator obj=new Calculator();
obj.Display();
}
}

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