

Class Panel09

1/2

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.text.DecimalFormat;
/** 
 * @author      Nathan Chen
 * @author      Benjamin Tu
 * @teacher     Coglianese
 * @period      2
 * @version     12-4-18
 */
public class Panel09 extends JPanel
{
    //Instance variables
    private double totalAmount;
    private JLabel totalLabel;
    /**
     * Default constructor
     */
    public Panel09(){
        setLayout(new BorderLayout());
        totalAmount = 0.0;

        JPanel panel = new JPanel();
        panel.setLayout(new GridLayout(2,3,10,0));
        add(panel, "Center");
        addButton(panel, "+1.00", 1.00);
        addButton(panel, "+0.10", 0.10);
        addButton(panel, "+0.01", 0.01);
        addButton(panel, "-1.00", -1.00);
        addButton(panel, "-0.10", -0.10);
        addButton(panel, "-0.01", -0.01);

        totalLabel = new JLabel("$0.00");
        totalLabel.setFont(new Font("Arial",1,30));
        totalLabel.setHorizontalAlignment(0);
        add(totalLabel, "North");
    }

    /**
     * Adds buttons to the panel
     *
     * @param panel panel where things are drawn
     * @param s     String to go on button
     * @param x     Double amount to add
     */
    private void addButton(JPanel panel, String s, Double x){
        JButton b$s = new JButton(s);
        b$s.addActionListener(new Listener(x));
    }
}
```

Class Panel09 (continued)

2/2

```
b$s.setFont(new Font("Arial",1,15));
panel.add(b$s);
}

/**
 * Listener class for buttons
 */
private class Listener implements ActionListener
{
    //instance vars
    private double myX;

    //Default constructor
    public Listener(double x) {myX=x; }

    //action performed when @param e (button press)
    public void actionPerformed(ActionEvent e){
        totalAmount += myX;
        DecimalFormat d = new DecimalFormat("$0.00");
        totalLabel.setText(d.format(totalAmount));
    }
}
```