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import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.text.DecimalFormat;
/**
 * @author      Nathan Chen
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 * @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));
    }
}
```

```
        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));
        }
    }
}
```