// COSC 1320 Summer 2015

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// Programming Assignment 2

// This is my own work; I will not post

package programmingassignment2;

import javax.swing.JTextField;

import javax.swing.JPanel;

import javax.swing.JButton;

import java.awt.BorderLayout;

import java.awt.FlowLayout;

import java.awt.Color;

import java.awt.Dimension;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

public class SwitchBoard extends JPanel implements ActionListener{

private JTextField textField = new JTextField(20);

private String state = "Circuit is currently open.";

private LightBulb bulb;

private ElectricalCircuit circuit;

SwitchBoard(){

bulb = new LightBulb();

circuit = new ElectricalCircuit();

bulb.setPreferredSize(new Dimension(bulb.getWidth() , bulb.getHeight()));

JPanel buttonPanel = new JPanel();

buttonPanel.setBackground(Color.LIGHT\_GRAY);

buttonPanel.setLayout(new FlowLayout());

JButton openButton = new JButton("Open");

openButton.addActionListener(this);

buttonPanel.add(openButton);//, BorderLayout.WEST

JButton closeButton = new JButton("Closed");

closeButton.addActionListener(this);

buttonPanel.add(closeButton);//, BorderLayout.EAST

bulb.setVisible(true);

bulb.setVisible(true);

buttonPanel.setVisible(true);

textField.setText(state);

textField.setEditable(false);

textField.setHorizontalAlignment(JTextField.CENTER);

buttonPanel.add(textField);//

add(buttonPanel);//, BorderLayout.NORTH

add(circuit, BorderLayout.CENTER);

add(bulb , BorderLayout.SOUTH);//

}

public void actionPerformed(ActionEvent e) {

try

{

printStatus(e);

}

catch (Exception e2)

{

textField.setText("Error: Unrecognized action.");

}

}

public void printStatus(ActionEvent e){

String action = e.getActionCommand();

if(action.equals("Open")){

bulb.flipState(e);

circuit.openGate();

textField.setText("Circuit is currently open.");

} else {

bulb.flipState(e);

circuit.closeGate();

textField.setText("Circuit is currently closed.");

}

}

}