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package Unit02;
import javax.swing.*;           //required for JFrame and window creation
import java.awt.event.*;       //required for ActionListener
import java.awt.BorderLayout;   //required for BorderLayout N,S,E,W,C
/*
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 *   This program shows the basic usage of check boxes, radio buttons,
 *   text fields, and JLabels. It also adds a button to close JFrame
 */
public class MyFirstWindow08 {
    static class Open implements ActionListener{
        public void actionPerformed(ActionEvent e){
            JFrame aNewWindow = new JFrame("Hey, I'm the new window!");
            aNewWindow.setSize(600,200);
            aNewWindow.setVisible(true);
        }
    }
    static class CloseWindow implements ActionListener{ //Accept these 5 lines
        public void actionPerformed(ActionEvent e){ //Named CloseWindow
            System.exit(0); //Can name anything
        }
    }
    public static void main(String[] args) {
        //Build Frame Window with new icon and set window size
        JFrame theWindow = new JFrame("My First Window"); // Window Object
        theWindow.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); //default close
        ImageIcon myNewIcon = new ImageIcon("C:\\Users\\sauxh\\Documents\\"
            + "NetBeansProjects\\2016APcsci\\src\\Images\\star.jpg");
        theWindow.setIconImage(myNewIcon.getImage()); // set the icon!
        theWindow.setSize(400,400); // we have a forced window size
        /*
            Changing all buttons to JPanels ... when initially run, you won't
            see the 5 regions since nothing is in the JPanels (empty). We know
            they are there from when he put button objects (visible) in them!

            Review:
            JFrame - The "big picture" ... the overall window
            JPanel - Each individual part of the window
            JMenuBar - The menu bar that contains your "file", "edit", etc.
            JMenu - The items in the menu bar (like file, edit, help, etc.)
            JMenuItem - A subitem in the Menu options (seen in the "drop-down"
            JLabel - Creates a "text" label ... text to insert
            JButton - Creates rectangular buttons
            JTextField - Creates text fields to type in
            JCheckBox - Creates check boxes
            JRadioButton - Creates radio buttons
        */
    }
}

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        JPanel northPanel = new JPanel();           // creates Panel object
        theWindow.add(northPanel,BorderLayout.NORTH); // put panel in Frame North
/*New*/ JLabel text = new JLabel("The JLabel");      // CREATE TEXT OBJECT
        northPanel.add(text);                       // ADD TEXT TO NORTH

        JPanel southPanel = new JPanel();           // creates Panel object
        theWindow.add(southPanel,BorderLayout.SOUTH); // put panel in Frame South
        JButton southButton = new JButton("South Button"); //CREATE BUTTON
/*New*/ southButton.addActionListener(new CloseWindow()); // add action to subitem
        southPanel.add(southButton);               // ADD BUTTON TO SOUTH

        JPanel eastPanel = new JPanel();           // creates Panel object
        theWindow.add(eastPanel,BorderLayout.EAST); // put panel in Frame East
/*New*/ JTextField textBox = new JTextField(10);     // CREATE TEXT BOX
        eastPanel.add(textBox);                    // ADD TEXT BOX TO EAST

        JPanel westPanel = new JPanel();           // creates Panel object
        theWindow.add(westPanel,BorderLayout.WEST); // put panel in Frame West
/*New*/ JCheckBox checkBox = new JCheckBox("Lo mein!"); // CREATE CHECK BOX & label
        westPanel.add(checkBox);                   // ADD CHECK BOX & label

        JPanel centerPanel = new JPanel();         // creates Panel object
        theWindow.add(centerPanel,BorderLayout.CENTER); // put panel in Frame Center
/*New*/ JRadioButton radioButton = new JRadioButton("Pizza!"); //CREATE RADIO
        centerPanel.add(radioButton);              // ADD RADIO TO CENTER^

//Build and display the menu bar
JMenuBar niceNewMenu = new JMenuBar();           // build JMenuBar object
JMenu menuItem1 = new JMenu("FILE");             // build a Menu object
JMenuItem subItem2 = new JMenuItem("Open");      // New 1st sub-item
subItem2.addActionListener(new Open());         // This time new action
menuItem1.add(subItem2);                         // add subitem to menu
JMenuItem subItem1 = new JMenuItem("Exit");      // build Menu subitem
subItem1.addActionListener(new CloseWindow()); // add action to subitem
menuItem1.add(subItem1);                         // add subitem to menu
niceNewMenu.add(menuItem1);                      // add menu to bar
theWindow.setJMenuBar(niceNewMenu);             // set JMenuBar to ours
theWindow.setVisible(true);                     //make window show up!
    }
}
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```