```
package Unit02;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

/*
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 *  This program is basically a slide show viewer for specific photos pointed to
 *  The program will allow you to cycle through 3 different photos, contains
 *  a menu bar and a help window.  Also notice that it does use "public static"
 *  variables in the beginning to create global variables to use throughout
 */

public class HendermongerPictureViewer {

    public static int currentSlide=1;               //Declare public so they can
    public static ImageIcon[] photos;               //be used throughout all
    public static JPanel northPanel, westPanel, centerPanel, eastPanel, southPanel;
    public static JLabel image1Label, image2Label, image3Label;
    public static JLabel currentSlideNumber;
    public static JButton nextButton, previousButton;
    public static JFrame window;

    static class Close implements ActionListener{             //ActionListener
        public void actionPerformed(ActionEvent e){           //close window
            System.exit(0);
        }
    }

    static class Help implements ActionListener{             //ActionListener
        @Override
        public void actionPerformed(ActionEvent e){          //Open Help Window
            JFrame helpWindow = new JFrame("Help");
            helpWindow.setSize(500,500);
            JLabel helpInfo = new JLabel("<html><CENTER><H2>HENDERMONGER PICTURE "
                    + "VIEWER HELP<BR><BR></H2>"
                    + "The program will access 3 pictures that are<BR>"
                    + "stored on your hard drive.  The pictures must<BR>"
                    + "be stored at the following locations:<BR><BR>"
                    + "C:\\Images\\image01JAVA.jpg<BR>"
                    + "C:\\Images\\image02JAVA.jpg<BR>"
                    + "C:\\Images\\image03JAVA.jpg</CENTER></html>");
            helpWindow.add(helpInfo);
            helpWindow.setVisible(true);
        }
    }
```

```
    static class GoToNext implements ActionListener{           //ActionListener
        @Override
        public void actionPerformed(ActionEvent e){
            if(currentSlide==1){
                centerPanel.remove(image1Label);                //remove image 1
                centerPanel.repaint();                          //like "refresh"
                southPanel.remove(currentSlideNumber);          //remove 1of3
                southPanel.repaint();                           //"refresh"
                centerPanel.add(image2Label);                   //add image 2
                currentSlide=2;                                 //make 2of3
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.add(currentSlideNumber);             //add 2of3
                nextButton.removeActionListener(this);          //remove button
                nextButton.addActionListener(new GoToNext());   //add button
                window.setVisible(true);                        //make it show up!
            }
            else if(currentSlide==2){
                centerPanel.remove(image2Label);                //remove image 2
                centerPanel.repaint();                          //like "refresh"
                southPanel.remove(currentSlideNumber);          //remove 2of3
                southPanel.repaint();                           //"refresh"
                centerPanel.add(image3Label);                   //add image 3
                currentSlide=3;                                 //make 3 of 3
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.add(currentSlideNumber);             //add 3of3
                nextButton.removeActionListener(this);          //remove button
                nextButton.addActionListener(new GoToNext());   //add button
                window.setVisible(true);                        //make it show up!
            }
            else{
                centerPanel.remove(image3Label);                //remove image 3
                centerPanel.repaint();                          //like "refresh"
                southPanel.remove(currentSlideNumber);          //remove 3of3
                southPanel.repaint();                           //"refresh"
                centerPanel.add(image1Label);                   //add image 1
                currentSlide=1;                                 //make 1 of 3
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.add(currentSlideNumber);             //add 1of3
                nextButton.removeActionListener(this);          //remove button
                nextButton.addActionListener(new GoToNext());   //add button
                window.setVisible(true);                        //make it show up!
            }
        }
    };


    static class GoToPrevious implements ActionListener{        //ActionListener
```


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```
        @Override
        public void actionPerformed(ActionEvent e){
            if(currentSlide==1){
                centerPanel.remove(image1Label);
                centerPanel.repaint();                          //like "refresh"
                southPanel.remove(currentSlideNumber);
                southPanel.repaint();
                centerPanel.add(image3Label);
                currentSlide=3;
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.repaint();
                southPanel.add(currentSlideNumber);
                nextButton.removeActionListener(this);
                nextButton.addActionListener(new GoToPrevious());
                window.setVisible(true);                    //make it show up!
            }
            else if(currentSlide==2){
                centerPanel.remove(image2Label);
                centerPanel.repaint();                      //like "refresh"
                southPanel.remove(currentSlideNumber);
                southPanel.repaint();
                centerPanel.add(image1Label);
                currentSlide=1;
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.add(currentSlideNumber);
                nextButton.removeActionListener(this);
                nextButton.addActionListener(new GoToPrevious());
                window.setVisible(true);                    //make it show up!
            }
            else{
                centerPanel.remove(image3Label);
                centerPanel.repaint();                      //like "refresh"
                southPanel.remove(currentSlideNumber);
                southPanel.repaint();
                centerPanel.add(image2Label);
                currentSlide=2;
                currentSlideNumber = new JLabel(""+currentSlide+" of 3");
                southPanel.add(currentSlideNumber);
                nextButton.removeActionListener(this);
                nextButton.addActionListener(new GoToPrevious());
                window.setVisible(true);                    //make it show up!
            }
        }
    };

    public static void main(String[] args) {
```

```
        //Create array that will create and hold the ImageIcons
        photos = new ImageIcon[4];
        photos[0] = new ImageIcon("C:\\Images\\image01JAVA.jpg");
        photos[1] = new ImageIcon("C:\\Images\\image02JAVA.jpg");
        photos[2] = new ImageIcon("C:\\Images\\image03JAVA.jpg");
        photos[3] = new ImageIcon("C:\\Images\\image04JAVA.jpg");


        //Create Labels that contain the images
/*NEW*/ image1Label = new JLabel("",photos[0],JLabel.CENTER);
/*NEW*/ image2Label = new JLabel("",photos[1],JLabel.CENTER);
/*NEW*/ image3Label = new JLabel("",photos[2],JLabel.CENTER);
/*NEW*/ currentSlideNumber = new JLabel("1 of 3");


        //Create Program JFrame
        window = new JFrame("Hendermonger's Picture Viewer");       //frame
        window.setSize(700,500);                                    //frame size
        window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);      //default close

        //Create Menu Bar
        JMenuBar menu = new JMenuBar();

        //Add Menu Bar Options
        JMenu file = new JMenu("File");
        JMenu help = new JMenu("Help");

        //Add Submenu Options
        JMenuItem Exit = new JMenuItem("Exit");
        Exit.addActionListener(new Close());            //add the Exit Action!!!
        JMenuItem getHelp = new JMenuItem("Get Help");
        getHelp.addActionListener(new Help());

        //Add Menu items and subitems to appropriate objects
        menu.add(file);
        menu.add(help);
        file.add(Exit);
        help.add(getHelp);

        //Make the Menu Visible
        window.setJMenuBar(menu);



        //Create 5 JPanels for BorderLayout Setup
        northPanel = new JPanel();                      //North Panel empty
```

```
        westPanel = new JPanel();
/*NEW*/ westPanel.setBackground(Color.red);               //change west to red

        centerPanel = new JPanel();
/*NEW*/ centerPanel.setBackground(Color.white);           //change center to white
/*NEW*/ centerPanel.add(image1Label);

        eastPanel = new JPanel();
/*NEW*/ eastPanel.setBackground(Color.green);             //change east to green

        southPanel = new JPanel();
        southPanel.add(currentSlideNumber);

        //Add each JPanel to the main program JFrame
        window.add(northPanel, BorderLayout.NORTH);
        window.add(westPanel, BorderLayout.WEST);
        window.add(centerPanel, BorderLayout.CENTER);
        window.add(eastPanel, BorderLayout.EAST);
        window.add(southPanel, BorderLayout.SOUTH);

        //Create the 2 JButtons that will toggle the slideshow
        previousButton = new JButton("PREVIOUS");
        nextButton = new JButton("NEXT");
        //nextButton.addActionListener(new deleteImage());

        //Add ActionListeners to the 2 JButtons
        nextButton.addActionListener(new GoToNext());       //add new listener
        previousButton.addActionListener(new GoToPrevious());

        //Add the 2 JButtons to appropriate portions of BorderLayout
        westPanel.add(previousButton);
        eastPanel.add(nextButton);

        window.setVisible(true);
    }
}
```


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