**Final Graphics Report**

**Major Developments/Breakthroughs**

* Discovered this beautiful code which I have no idea how it works, but I know that you need it when trying to run a program which uses swing components

javax.swing.SwingUtilities.invokeLater(new Runnable() {

public void run() {

createAndShowGUI();

}

});

* Learned you needed a separate panel for cardlayout, and also when adding the separate panels to the panCardlayout panel, you need to add the string name for the specific panels (eg. Yash)

panCards = new JPanel(new CardLayout());

panCards.add(panYash, Yash);

panCards.add(panNav, Nav);

panCards.add(panJason, Jason);

panCards.add(panMichael, Michael);

* Using Comboboxes

String comboBoxItems[] = { Yash, Nav, Jason, Michael };

JComboBox combobox = new JComboBox(comboBoxItems);

* A similar breakthrough in my RadioButtons project, I had forgotten to add the string name (eg. Yash)

panCards.add(panYash, Yash);

* Learned how to make the cards change color once the status check button was clicked for the radio buttons

public void actionPerformed(ActionEvent ae) {

CardLayout cardlayout = (CardLayout)(panCards.getLayout());

String radioSetting = "";

if (btnRadioA.isSelected()){

**cardlayout.show(panCards, "Blue");\*\*\*\*\*\*\***

radioSetting = "Radio Button A is selected.\n";

}

* Discovered to add else, for when no radio buttons were selected and the status button was clicked, also to add else if so that the error for the first 3 radio buttons (where the message for when no radio buttons selected would show up) was fixed

else if (btnRadioD.isSelected()){

cardlayout.show(panCards, "Yellow");

radioSetting = "Radio Button D is selected.\n";

}

else {

radioSetting = "Press a Button First you Dinosaur.\n";

}

**Major Challenges/Setbacks**

* Trying to find out how to make images change with radio buttons, I could not understand the command for loading up and image and gifs

    public void actionPerformed(ActionEvent e) {

        picture.setIcon(createImageIcon("images/"

                                        + e.getActionCommand()

                                        + ".gif"));

    }

* When I first started this project, I had extreme difficulty trying to connect radio buttons to change panels, using action listener

public void actionPerformed(ActionEvent ae) {

CardLayout cardlayout = (CardLayout)(panCards.getLayout());

* Loading images were a huge problem for me during this project, from trying to find the simplest code to accomplish this, I also had trouble deciding where to save the image, and identifying the “pathway” to the image so that it would load up properly

BufferedImage myPicture = ImageIO.read(new File("path-to-file"));

JLabel picLabel = new JLabel(new ImageIcon(myPicture));

add(picLabel);

* When I tried to use the code above, an error occurred reading “abstract” and I was forced to do an IOException, this however, crashed my entire program

**Any modifications to your planned steps:**

* I did not add radio buttons to other screens (1.5)
* Did not use check boxes, but replaced with Comboboxes (1.7)
* Did not add background design or text to different screens (just added color – 2.2-2.4)
* Did not add clickable images