Tutorial 9: Java Swing

Practice exercise 1: Painting a funny face

Step 1: Download a NetBeans project

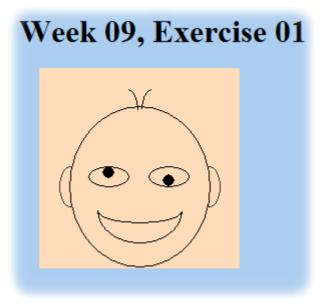
Download the NetBeans project contained in the file, Week09_01.zip

Unzip the file you have just downloaded.

Use NetBeans to open the project you have just unzipped.

Step 2: Understand the problem

The application you have just downloaded should display an applet that paints a funny face, as illustrated below.



The application you have downloaded does not paint a funny face.

Step 3: Paint a funny face

Study the code, and ensure you understand it. Ask for help if you need it.

Your task is to modify the file, FunnyFace.java so that a funny face is painted (be creative!). You should not modify any other part of the application.

Step 4: Test your painting

Run your Internet application. Correct any errors that you find.

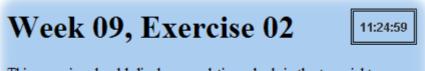
Practice exercise 2: Pass parameters to a Java applet

Step 1: Download a NetBeans project

Download the NetBeans project contained in the file, Week09_02.zip Unzip the file you have just downloaded. Use NetBeans to open the project you have just unzipped.

Step 2: Understand the problem

The application you have just downloaded should display index.jsp, which is a JavaServer Page that should contain a real-time clock in the top right-hand corner, always level with the heading.



This exercise should display a real-time clock in the top-right corner of this web page, always level with the heading.

The application you have downloaded has a deficiency: it does not display the clock even though the applet, TimerApplet, exists.

Step 3: Correct the application

Study the code, and ensure you understand it. Ask for help if you need it.

Your task is to do the following:

- § modify the index.jsp file so that the timer applet is displayed; you need a width of 60 pixels and a height of 30 pixels;
- § modify the Week09_02.css file so that the applet is displayed in the correct place on the web page, and with the correct border.

You should not modify any other part of the application.

Step 4: Test your Internet application

Run your Internet application. Correct any errors that you find.

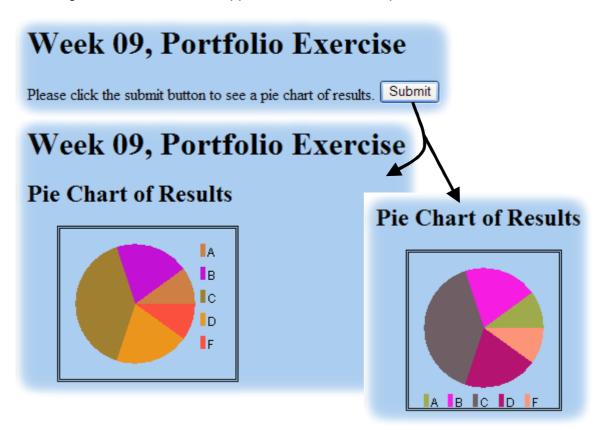
Please note: the portfolio exercise is on the following page

Portfolio exercise 9: Write a Java applet

This exercise should be submitted at the milestone in week 11.

In this exercise, you will add an applet to an Internet application. The application generates some data that is to be displayed in a pie chart. The legend is displayed at the right of the pie chart if the width of the applet is greater than the height, otherwise the legend is displayed below the chart.

The images below illustrate the application when it is complete.



Step 1: Download a NetBeans project

Download the NetBeans project contained in the file, Week09_Portfolio2.zip Unzip the file you have just downloaded.

Use NetBeans to open the project you have just unzipped.

Step 2: Understand the problem

Study the code, and ensure you understand it. Ask for help if you need it.

Step 3: Enhance the applet

At the moment, the <code>PieChart.java</code> file does not paint anything. Your task is to add code that will paint the pie chart and its legend.

You should not modify any other part of the application.

Step 4 Test your Internet application

Run your Internet application. Correct any errors that you find.

Portfolio requirements:

- § Your source code for the PieChart.java file in your application
- § Screenshots of your application showing all appropriate views (from step 4)