# CS113 – Intro to Computer Science II

# Lab 11 (Ch. 29 – Multi-threading)

## Objectives:

* Review Classes and Swing GUI features.
* Work with Java multithreading features.

## Creating a Java Program using Multi-threading

For this project you have the choice of completing **either** Programming **Exercise 29.2** (page 972) or **Exercise 29.13** (page 972-3). Your comments at the beginning of your program should clearly indicate your name(s) and the exercise that you are choosing to complete.

If you choose to do Exercise 29.13, you will be eligible to earn up to 10 points of extra credit (i.e., the lab is worth 40 points total, but you can earn up to 50 for attempting Exercise 29.13). You should note that Exercise 29.13 is not trivial and will require some research on the sorting algorithms in your textbook! There is absolutely no penalty for deciding to complete Exercise 29.2.

If you choose to complete Exercise 29.2, add the following requirement to the description on page 972: create each of the four cars in a **different color** to make them easier to identify on the screen (shown on page 591).

Be ready to run your commented (include names, lab#, exercise completed, etc.) source code listing, your output screen captures and be prepared to demonstrate your working program at the beginning of lab next week. There is no need to print your listings or any output.

Due on **Monday, April 14**, 2014 at the beginning of class.