Introduction

In this lab you will use the Java you have learned in lecture to write a small program.

Preparatory tasks

- 1. Log in
- 2. Start Eclipse
- 3. Switch to the CVS Repository Exploring perspective
- 4. Check out the SP15-CSE115-Lab3 project from the Labs repository
- 5. Switch to the DrJava perspective

Lab Tasks

- 1. Define a class named lab3. Conservatory; define its constructor so that when the class is instantiated it creates an example1. Terrarium containing three moving example1. Butterfly objects.
 - ❖ Test your program at each step along the way to make sure it has the desired behavior. Instantiate lab3. Conservatory in the DrJava interactions pane and check that a Terrarium with three moving Butterflies appears. If not, fix your code before moving on.
- 2. Define a class named lab3.Coop; define its constructor so that when the class is instantiated it creates an example1.Terrarium containing four moving example1.Chicken objects.
 - Test your program again. Instantiate lab3. Coop in the DrJava interactions pane and check that a Terrarium with four moving Chickens appears. If not, fix your code before moving on.
- 3. Define a class named lab3.Pen; define its constructor so that when the class is instantiated it creates an example1.Terrarium containing five moving example1.Pig objects.
 - ❖ Test your program again. Instantiate lab3.Pen in the DrJava interactions pane and check that a Terrarium with five moving Pigs appears. If not, fix your code before moving on.
- 4. Define a class named lab3. Farm; define its constructor so that when the class is instantiated it creates one lab3. Conservatory object, two lab3. Coop objects and three lab3. Pen objects.
 - ❖ Test your complete program. Instantiate lab3. Farm in the DrJava interactions pane and check that get six Terrariums, each with the expected number of critters. If not, fix your code before submitting to Web-CAT.

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Submitting your project to Web-CAT

Make sure you submit your work on time; due dates are listed on the Labs page of the course website. This lab will be automatically graded by Web-CAT but graders will review all submissions, make grade adjustments and give feedback as appropriate.