## Lab Exercise #2 Debugging with Eclipse Computer Science 2334

## Due by: Friday, September 4, 2009, 11:29 am

Learning Objectives (Milestones):

- 1. Install Eclipse and import an existing project.
- 2. Successfully compile a sample Java program
- 3. Use the Eclipse debugger to identify and remove bugs in the program.
- 4. Generate Javadoc documentation for the program using Eclipse.

## Instructions:

This lab exercise *requires a laptop with an Internet connection*. Once you have completed the exercises in this document, you will submit it for grading. **All work for this assignment must be done individually**. Please legibly write your name at the top of this lab handout.

- 1. Download the sample "Lab1.zip" source archive from the class website. Save this file to your Desktop. Import the archive into Eclipse using the instructions given in the slides. Once the archive has been imported, you may now delete the "Lab1.zip" from your Desktop.
- 2. Add the following code to the main method of Lab1. java using Eclipse.

```
Lab1 lab1Program;
lab1Program = new Lab1( "This is the first lab exercise for CS 2334." );
```

3. Eclipse should highlight several errors that you need to correct in the source code. List these errors in the space provided below with a short explanation of how you fixed them. Be sure to list the line number that the actual error occurred on in the Lab1. java file. Once you have removed all of these errors, the file should not contain any errors or warnings.

List the errors found and give a short explanation of how you fixed each one:

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4. Now, try to run the program by right-clicking on "Labl.java" and select "Run as as "Java Application" is not present. In order to run the program the source file mu method. Fix this error in the program source code and verify that the program work	st contain a proper main()
5. Generate the Javadoc documentation for the Lab1 program using the instructions	given in the slides.
This will create a new sub-folder named "docs" and place several files in the fold	der including an index.html file
Next, open the doc\index.html file using a web browser and inspect its conte	ents.
Describe the contents of the index.html file.	
6. Download the Lab2.zip file from the class website. Import them into Eclipse a	s a project.
7. Run the project by using Eclipse. List the error found and give a short explanation	on of it
8. Fix the error by changing ONLY the work() method in Lab2.java. Write down the	ne modified work() method.

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9. Using Eclipse debugger, what is the value of myArray[4] after work() is done?

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