

# Assignment 0 (Message)

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**Due** Sunday by 11:59pm      **Points** 5

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**Due:** Sunday, August 30

**Points:** 5

**Deliverables:** Message.java and MessageTest.java submitted to Web-CAT

## Assignment Instructions

For this assignment, you will need to install **Java 8** (<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>) (at least) and **Eclipse** (<https://eclipse.org/>) and the Web-CAT plugin for Eclipse (see instructions below). Note that I still recommend using Java 8 because I know that Web-CAT works with it. You should be able to use latest version of Eclipse.

Create a simple Message class with the following features:

- It should reside in the package message
- It should contain a private field that holds a message of type String
- It should have a public constructor that takes a message of type String and assigns it to the message field
- It should override the toString method to print the contents of the message field

In addition, create a simple JUnit test case – MessageTest – for your Message class:

- It should reside in the package message
- It should test at least two different Message objects to see if their toString methods return the correct value.

Submit your project to Web-CAT via the Eclipse plug-in.

## Manually submitting your project to Web-CAT

Whenever I use Web-CAT, I always submit my project manually. That way I don't have to rely on the plug-in and I can use any IDE that I like (for example, NetBeans or IntelliJ IDEA). Even if you choose to use the plug-in, you should know how to submit to Web-CAT manually in case something goes wrong. Here are the steps.

1. Create a folder on your desktop called "webcat-submit". The name and location of the folder is not critical, but this is what I use.
2. Create a folder inside of web-submit with your package name. For example, in this project it would be "message".

3. Copy all the the \*.java files from your project to the package folder. Do not forget to copy your test files also into the same folder.
4. Zip up the webcat-submit folder.
5. Log into Web-CAT.
6. Find your project.
7. Click submit.
8. Upload the Zipped webcat-submit folder.

## Installing the Web-CAT plugin for Eclipse

1. Make sure you have Installed Eclipse first.
2. Start Eclipse, if you don't already have it running.
3. We need to install an additional plug-in to make some common tasks in this course easier. Open the Help menu and select Install New Software...
4. In the Work with: field, paste the following URL and press Enter  
Work with: <http://web-cat.org/eclstats>
5. Click the check box next to "Web-CAT Electronic Assignments" in the list, and click Next. Review your selection and click Next again.
6. Check "I accept the terms of the license agreements" and then click Finish.
7. Wait while the plug-ins are downloaded and installed; this may take a few minutes. You may get a warning about installing unsigned code during the installation. Click OK to continue the installation.
8. When the installation is complete, Eclipse will notify you that it should be restarted in order for the changes to take effect. Click Yes to do so.
9. Before you can begin working on class assignments, you need to configure a couple settings in Eclipse's preferences. Once Eclipse has restarted, select "Window > Preferences..." (or on Mac OS X, "Eclipse > Preferences...") from the menu.
10. Click "Web-CAT Assignments" from the left panel and copy and paste the following URL into the panel. (If the line gets wrapped, make sure you don't accidentally put any spaces in it.)  
Submission Definition URL  
<https://web-cat.cs.vt.edu/Web-CAT/WebObjects/Web-CAT.woa/wa/assignments/eclipse?institution=VT>
11. Click OK to save your changes and exit the preferences window.