# Using Eclipse in CompSci 4

### Addendum for Creating Applets in Eclipse

For the purposes of these notes, we are going to deal with a project named *Iliad* and a package named *homer* and a class named *Troy*. You need to substitute the actual names of project, package, and class(es) you want to work on. The details apply to the machines in 229 Social Sciences, the ICC. Other Windows environments are very similar.

## Using Eclipse

* **Starting Eclipse**
  + Double Click on **Classroom Applications on the Desktop**
  + Double Click on **eclipse.exe**
* **Making a Project**
  + **File->New->Project**
  + **Java->Java Project**
  + Click on **Next**
  + For Project Name type *Iliad*
  + Click on **Finish**
  + If asked: Switch to Java Perspective? **Yes**
* **Creating a Class**
  + Select (Click on) *Iliad*
  + **File->New->Class**
  + Name: *Troy*
  + SuperClass: **java.applet.Applet**
  + If there is a check before "public void main(String[] args)" **unclick** this box.
  + **Finish**
* **Editing Source Code**
  + Make sure you add an **public void init()** method
  + Add the required code as needed
  + (Don't make too many changes before recompiling)
  + (It will usually be easier to locate errors after limited changes>
  + Click on the **diskette icon** to save  
    (or **File->Save**)
* **Compiling Source Code**
  + Always be sure to **save** any changes before compiling (Unsaved files show an asterisk in the fields above the main window.)
  + Select (Click on)*Iliad*
  + **Project->Rebuild Project**
* **Executing Your Program**  
  If any changes were made, you must Compile first (see above).
  + Click on *Homer.java*
  + **Run->Run as->Java Applet**
* **Saving Project Locally**
  + Click on *Iliad*
  + **File->Export**
  + Select **Jar file**
  + Click on **Next**
  + Jar file: click on **Browse**
  + double click on **My Computer**
  + Use filename *myhomer.jar*
  + Click on **Save**
  + Click on **Finish**

## Local Testing

To run/test the applet on the local machine *using a web browser* (running it in Eclipse uses a piece of software called the appletviewer) you can do the following: (It is assumed that you have created *myhomer.jar* as shown in the previous step.)

* **Create an HTML file that invokes the applet**
  + Use any tool that you want to create a web page
  + it must include:  
    <applet code="Troy.class" archive="myhomer.jar"  
    height=200 width=200></applet>
  + **Save** it with the name *myhomer.html*
  + Under Windows you should be able to double-click on *myhomer.html*. This should bring up a web page which, in turn, should start the applet.

## Saving Project (Installing in Web Page Directory)

You should now have *myhomer.jar* and *myhomer.html* on you desktop. To allow access from any browser, these must be copied to the appropriate location on your acpub file system.

* Starting with **My Computer** browse:
* to the **P: drive**, then **public\_html** folder, then your **cps4** folder.
* Drag both *myhomer.html* and *myhomer.jar* to the **cps4** folder.  
  (This will copy them.)
* Now, using any browser, use the URL: "http://www.duke.edu/~yourloginid/cps4/myhomer.html"  
  This should run your applet
* You can also put a link to *myhomer.html*, into an existing web page.