Installing JGrasp on a FCPS issued student laptop: it requires many steps because we do not have administrative privileges on these machines and cannot install from executables. If you intend to install on your personal computer, just go to jgrasp.org and download and install JGrasp bundled with the JDK for your operating system.

But for FCPS laptops, here are the steps:

1. Make a new folder in your documents folder called JGraspInstall:
2. Download and extract an Open JDK zip file to the JGraspInstall folder you just made:

Go to jdk.java.net/archive/ and download the highest release build number there is for Windows 64-bit as a zip file, such as: openjdk-16.0.1\_windows-x64\_bin.zip

If the link does not work, search for “openjdk-16.0.1\_windoes-x64\_bin.zip” and that should take you to the new download archive.

Extract the contents of the zip file into your JGraspInstall folder so it looks something like this:

This PC -> Documents -> JGraspInstall -> jdk- 16.0.1 (version number might be different).

Make sure that you are not just moving the entire zip file into the JGraspInstall folder. You need to double-click on the zip file to open it, and copy the folder within (jdk- 16.0.1) into your JGraspInstall folder.

1. Download and extract the jGrasp zip file to the JGraspIntall folder you just made:

Go to jgrasp.org and in the upper-left corner, click on Download. This will take you to:

spider.eng.auburn.eduuser-cgi/grasp/grasp.pl?;dl=download\_jgrasp.html

Scroll down and download the highest version of jGrasp zip for Linux, UNIX and other systems.

(Yes, this is a windows computer, but this is the way to get things to work.)

Extract the contents of the zip file into your JGraspInstall folder, which should now look something like this:

This PC -> Documents -> JGraspInstall -> jdk- 16.0.1

This PC -> Documents -> JGraspInstall -> jgrasp

Again, make sure that you are not just moving the whole zip file into the JGraspInstall folder. You need to double-click on the zip file to open it, and copy the folder within (jgrasp) into your JGraspInstall folder.

1. Make a shortcut to jGrasp on the desktop:

Click into the folder jGraspInstall/jgrasp/bin and right-click on the file jgrasp.exe. Make a shortcut and move it to the desktop. Double-click on the shortcut you just moved to the desktop and make sure jGrasp boots up. You can select a style and turn off reporting in the check-box on the first run.

1. Connect JGrasp to the Open JDK:

With jGrasp now running, click on **Settings** (middle of the top drop-down menu), then select **PATH/CLASSPATH** and **Workspace**. Of the 3 middle tabs, make sure **PATHS** is highlighted to be the active tab. Click on the New button on the right, then the Browse button on the right.

Navigate to Documents -> JGraspInstall -> jdk- 16.0.1 -> bin (the jdk version # might be different). Pick **Choose**, **Ok**, then **Apply** at the bottom of the Settings window. Then the **Ok** button in the lower left to close the Settings window.

1. Test JGrasp by writing a Java program:

In the upper-left corner, click on **File**, then **New**, then **Java**. A blank editing window will appear as the main part of the screen. In that editing window, type in the following program:

public class Test

{

public static void main (String [] arg)

{

System.out.println(“Hello world”);

}

}

In the upper-left corner, click on **File**, then **Save As**. Navigate to your Documents folder if it does not default there, then click **Save** in the lower-right corner. In the icon bar at the top, click on the compile icon (plus symbol) to find errors. If the bottom window reports “operation complete”, click the run icon (running man just to the right of compile) and make sure that the bottom window declares “Hello world”.

1. Connect java to jGrasp’s amazing debugger:

In the top menu bar, click on **Settings**, then from the pull-down menu near the bottom, select **JGRASP Startup Settings**. At the bottom-right, click the **Browse** button next to the window to set the **Java executable for running jGRASP** (it might currently be filled with [Default].

Navigate to the same folder where you extracted the JDK, and select java.exe. It may be:

Documents -> JGraspInstall -> jdk- 16.0.1 -> bin -> java.exe. It will ask you to restart jGRASP for changes to take effect. Click **Ok** and comply.

Test to make sure that it works by restarting jGrasp and with any program, click on the ladybug icon in the top row of icons. It is to the right of the run icon. If the message window reports that you are connected to the debugger, you are all done.

That is it. Now go make something great.