

CS 1331 Homework 1

Due Thursday, January 17th, 2013 8:00pm

Introduction

Welcome to the Spring 2013 edition of CS 1331! This first homework is more introductory than anything else. It will take you through the steps to install java (if you don't already have it), open and run a provided java file, and then answer some questions about the code (one of which actually has you adding to it) in the file and about some java basics.

Before we get into the actual assignment, there are some things that you need to be aware of.

Remember, all work in the class needs to be **your** own work. You are not allowed to share code with one another. If you have questions, come by office hours and our TA team will be happy to help you!

The homework is officially due at 8pm on the night of the due date, but we give you a grace period until 2am. However, you absolutely **MUST** turn in the homework by 2am. We will not accept any homework turned in after that.

Make sure all of your code compiles. Non-compiling assignments will be given a 0.

1.1: Installing the Software

For this class there are two things you need; java and an IDE or text editor. Java itself needs you to have the java compiler and the JVM (Java Virtual Machine) this will allow you to compile and run java programs on your machine. A tutorial for installing java can be found in the resources section on T-Square. The tutorial also gives some information on IDE's. While you are welcome to use whatever IDE you want, we recommend that you start off either just using a text editor and the command line, or with something simple like JGrasp, and then later move on to a more advanced IDE once you feel comfortable programming in Java.

1.2 Opening and Running HelloWorld.java

Now that you've got java, you are ready to move on to the next part of the assignment! In the same place that you found this document, there was a file called HelloWorld.java. Download that, and open it in your text editor or IDE of choice.

Once you've opened the file, you are ready to compile and run the program. If you are using JGrasp, there is a button with a green plus sign on it that compiles the program; then you can press the button with a red running man to run the program.

You can also compile and run your program through the command line. To do this, you need to open the command prompt and navigate to the directory where your .java file is saved. The command to compile the file is :

```
javac HelloWorld.java
```

If you look in the directory where the .java file is, you will now see a file called HelloWorld.class – this file is the java bytecode that the JVM interprets and executes. To run the program from the command line, type:

```
java HelloWorld
```

1.3 Answering Questions

The graded part of this assignment is the questions in the comment block in the HelloWorld.java file. For each question, simply write out your answer in the provided space. Question 4 asks you to add to the provided code, so make sure that the code you add compiles and runs the way that it should! When you are finished, save the file and upload it to T-Square.

Turn-in Procedure

Turn in the following files to T-Square. When you are ready, make sure that you have actually **submitted** your files, and not just saved them as a draft.

- HelloWorld.java

Note** Always submit .java files - never submit your .class files. And be 100% certain that the files you turn in compile and run - submissions that do not will receive an automatic 0. Also, make sure that your files are in on time; the real deadline is 8 pm. While you have until 2 am to get it turned in, we will not accept homework past 2 am for any reason. Don't wait until the last minute!

Verify the Success of Your HW Turn-in

Practice "safe submission"! Verify that your HW files were truly submitted correctly, the upload was successful, and that the files compile and run. It is solely your responsibility to turn in your homework and practice this safe submission safeguard.

1. After uploading the files to T-Square you should receive an email from T-Square listing the names of the files that were uploaded and received. If you do not get the confirmation email almost immediately, something is wrong with your HW submission and/or your email. Even receiving the email does not guarantee that you turned in exactly what you intended.
2. After submitting the files to T-Square, return to the Assignment menu option and this homework. It should show the submitted files.
3. Download copies of your submitted files from the T-Square Assignment page placing them in a new folder.
4. Recompile and test those exact files.

5. This helps guard against a few things.
 - a. It helps insure that you turn in the correct files.
 - b. It helps you realize if you omit a file or files. (If you do discover that you omitted a file, submit all of your files again, not just the missing one.)
 - c. Helps find last minute causes of files not compiling and/or running.