

CMPS 12a Lab Assignment 1
David Helmbold, Winter 2004
Due by Midnight Tuesday January 13

This assignment is an introduction to the computing environment we will be working in. Its score will count towards your Major Programming Lab total, however:

- each student is to complete all of the steps (partnerships are not yet in effect)
- students are encouraged to help each other with any rough spots that might arise (test taking conditions do *not* apply to this lab).

The assignment consists of several parts. Although all parts are easy once you know how to do them, there is a good chance you will have difficulties with at least one of the parts. Get started early and use the TA's, Tutors, references on the class web page (<http://www.soe.ucsc.edu/classes/cmcs012a/Winter04/>), and the other students to help you over the rough parts.

Reading: Chapter 1 and Chapter 2 through page 31. Check your understanding by doing exercises 2, 3, and 4 on page 12.

Lab: Some steps must be completed before others, but feel free to do them in any order that makes sense.

1. Get a CATS computer account and make sure you can access webCT. The class web page has links with more information on how to do this. Register for your account as soon as possible, since it may take a couple of days to activate.
2. Find a programming partner in your lab section. Although everyone will do this assignment individually, all other assignments will be done in pairs. Changing partners will be difficult, so choose carefully.
3. Create a subdirectory in your Unix account for assignment1. Create the files for this assignment in that subdirectory. The class web page has a link to an introductory Unix page.
4. Create and edit a text file called `partner.txt` to look like the following:

```
I am FirstName LastName .  
My CATS account is account@cats .  
My partner is FirstName LastName .  
Their CATS account is account@cats .
```

where the text in *italics* is replaced by the information relevant to you.

5. Send an email to your lab TA with the subject `12A partner` and the body being the text file you just created.
6. Log on to WebCT, and post a message introducing yourself to the `assign1` discussion. This message should at least your first name and cats account. Here is what I might post:

I am David, and my CATS account is dph@cats. I have been on the faculty for 17 years now, and my research area is Machine Learning. My wife and I have a cat and a 15 month old daughter. Work hard, learn lots, and have a good time in CMPS 12a!

7. Edit a file `HelloWorld2.java` so that it contains a copy of the `HelloWorld2` program (example 2.5 on page 25 of the text). Be careful to type the program in exactly as written, as small changes will keep it from working.
8. Compile your `HelloWorld2.java` program, and then run it.
9. Use the `submit` command to turn in your `HelloWorld2.java` and `partner.txt` files.
Usage:

```
submit cmcs012a-dh.w04 hw1 HelloWorld2.java
```

You can check if your submit was succesful using:

```
peek cmcs012a-dh.w04 hw1
```
10. (optional, to prepare for the next lab) Set up your account so that you use the `tio` package (see class web page) and type in the `SimpleInput` program on page 27 of the text. Advanced students can modify this program so that it takes the width, height, and depth of a box and outputs the box's volume.

Grading: This assignment will be graded on a 4 point scale, with one point each for the successful completion of parts 5 and 6, and two points (one for each file) for part 9.