

# csc 121 lab 1

August 26, 2005

## Becoming familiar with MS-DOS, the command prompt, entering a simple Java program via a text editor, and compiling and running a program using the command prompt.

*[If you are using your own computer, you may need to download a recent version of the Java Development Kit (JDK) by visiting the following website:*

<http://java.sun.com/j2se/1.5.0/download.jsp>

*Download the J2SE (Java 2 Platform Standard Edition) JDK 5.0 (the netBeans version is not necessary and would take longer to download) and double-click on the program to install.]*

### Becoming familiar with MS-DOS:

1. The Windows operating system is built upon a fairly simple disk operating system (DOS) released by Microsoft, hence MS-DOS, that can control basic system operations such as file and directory creation, deletion, copying, etc.

2. Read over the MSDOS commands overview .pdf file as well as the MSDOS Primer .pdf file.

3. Under the “Start” menu in Windows, choose “Run” and type “CMD” in the window. A MS-DOS “command prompt” window should appear.

3. Type `cd c:\` in the command prompt window.

4. Type `mkdir javatest` in the command prompt window to make the directory `javatest` for your working directory. Now, type `cd javatest` to change into that directory.

5. Type `edit FirstProgram.java` in the command prompt window.

6. Enter the following program in the blue text editor window:

```
import javax.swing.*;

class FirstProgram {

    public static void main (String[] args) {

        JOptionPane.showMessageDialog(null,
        "Hello, World!");    (this last command all on one line...)

        System.exit(0);

    }

}
```

7. When finished, hit <Alt>-f and then “s” to save. Hit <Alt>-F and then “x” to exit the editor.

8. Now, type the following all on one command-prompt line with just one space between the last quotes and “FirstProgram.java”:

```
"C:\Program Files\Java\jdk1.5.0_04\bin\javac"
FirstProgram.java
```

*(Version # above after jdk may differ! Check the Program Files\Java directory to be sure.)*

9. If all is well, nothing happens other than a new command-prompt line appearing. If you get an error message, go back to step 5 and try to find the problem in the program as listed above.

10. Now, type the following command:

```
set classpath=.
```

11. Now, type the following command:

```
"C:\Program Files\Java\jdk1.5.0_04\bin\java"
FirstProgram
```

12. If all is well, you should have run your first program. If not, start back at step 5 and try to figure out what is different.

13. Once the program is running properly, hit “ALT-PRINTSCREEN” on your keyboard while your program is still active.

14. Open Microsoft Word or another graphical wordprocessor and hit “Ctrl-V” to “paste” the image into your word file. Describe how the process went in a few sentences.

15. Modify the program to say something else instead of “Hello, World!” and then compile and run again.

16. Again, capture the active window image and paste into your document. Write a few sentences to describe the overall process and anything interesting you noted during the lab or any questions that arose. Don't worry if everything didn't make sense, yet!

17. Submit this document on Monday with the names of your pair included.