

You will attach this as a cover sheet to your entire, stapled problem set. Please attach the questions in order. Verify the alignment of the holes for later storage in your three-ring binder. You'll be asked several times to upload a screenshot of your work to Catlink. When doing so, make sure your screenshot shows (a) all relevant code; (b) the commands used to compile and execute the code in terminal; and (c) the output of the program. If you are using Windows Vista, you'll find the Snipping Tool useful – you can find it in Accessories.

Step 1 Exercises

1. Read Chapter 2 in your textbook. Write down the objectives at the start of the chapter and attach. Please exclude section 2.7 for this assignment – we'll come back to it later.

2. As you'll read, sending messages to objects in Java always takes the form:

```
<name of object>.<name of message>(<parameters>);
```

So for example, if you wanted a dog named Barney to bark you might say:

```
barney.bark(loudly);
```

- a. Make up a few (4+) examples of this of your own – these can be fanciful, like the Barney example. Write them down and attach.
 - b. Flip through the textbook to later chapters and find a few (4+) examples of the use of this format. Write them down and attach.
3. Type in, compile, and execute the following simple Java program on your personal or home computer. These commands are case-sensitive.

```
public class HelloWorld {  
    public static void main(String [] args) {  
        System.out.println("Hello world by <your name>.");  
    }  
}
```

Upload a screenshot of your successes at the appropriate place in Catlink. Note that if you're having trouble compiling or running using javac or java, it might be that you haven't set your PATH properly. Refer to my instructions in the course weblog on Catlink. Note as well that the 1st and 2nd line of this program will be used over and over again – you might commit these lines to memory.

4. Write down a list of the steps a programmer must take to ensure the program is readable by others.
5. Type in the Temperature Conversion program (Section 2.6), compile and run it. Upload a screenshot of your successes at the appropriate place in Catlink.

(required) Step 2 Exercise

6. Write a unique program that uses the framework provided by the Temperature Conversion program to make a conversion or simple calculation of your choice. Upload a screenshot of your successes at the appropriate place in Catlink. Make sure nobody you're working with is writing the same conversion – yours should be unique.