# Java Program Style Guide

This guide summarizes the conventions associated with good programming style. All programming assignments should adhere to these guidelines.

### Identifier: Naming

- 1. Use descriptive names, avoiding single character names.
- 2. Make identifiers easy to read (e.g., use currentValue instead of curval).
- 3. Keep identifiers to a reasonably short length.
- 4. Use the underscore character to separate words in a constant.
- 5. Use UPPERCASE for constant identifiers.

#### White Space

- 1. Indent all statements within a code block an equal amount (2 to 5 spaces).
- 2. If the loop body, if statement, or else clause is a single statement, embed that statement in a code block (using curly braces).
- 3. Put the opening left brace ({) starting a new code block on a new line immediately below the start of the previous line. Align the closing right brace (}) with the opening brace and on a line of its own.
- 4. Use ctrl-shift-f to reform t the java file
- 5. Separate code blocks with blank lines.
- 6. Lines should be no longer than a maximum of 80 characters. Press "Enter" at the end of a line to force a new line; don't use tab or spaces to move the cursor down.

## Messages & Prompts

- 1. Always inform the user of the program title or purpose.
- 2. Always inform the user of the purpose and type of input required.
- 3. Do not condescend.
- 4. Do not attempt to be humorous.
- 5. Be informative, but succinct.
- 6. Define specific input options in prompts when appropriate.
- 7. Include one or two spaces at the end of a prompt, then leave the cursor on the same line as the prompt (for visibility).
- 8. Messages and prompts should be nicely formatted.

#### Output

- 1. Label all output clearly and well formatted.
- 2. Provide information to the user in a consistent manner.
- 3. End the last line of output (println).

## Header & Block Comments

- 1. Every source file should contain a header comment neatly specifying the program name, the assignment, its purpose, and the author and his/her user ID.
- 2. Each block comment should have a distinct delimiter on the top and bottom, such as the following:

/**************************************	
* Filename:	delinquencies.java
* Assignment:	lab 10, exercise #2
* Author:	N. Van Cleave (nkvancleave)
<pre>* Purpose:</pre>	Print a report of delinquent customers based on a data file
*	specified by the user and an overdue bill of more than
*	five days.
*	Each line of the file must conform to the following format:
*	Field 1: integer, customer ID number
*	Field 2: string, 35 characters, customer name
*	Field 3: string, 50 characters, customer address
*	Field 4: float, customer charge amount
*	Field 5: integer/integer/integer, month, day, and
*	year of last bill sent
*	Fields are comma separated.
***************************************	

- 3. All comments should be meaningful, describing the logic or reason for the code block, and readable.
- 4. Line comments should be used to explain a block of code it isn't necessary to comment every single line. Rather, they should describe a logical block of code small enough to be easily understood and modifiable.