CSC 340 Coding Style Guide

Instructor: Ike Quigley Last Updated: Fall 2019

## 1. Classes

- 1.1 All Class names should start with a Capital Letter.
- 1.2 The first line of every class should be the package declaration.
- 1.3 A comment block should immediately follow the package declaration that contains the last updated date of the file, a brief description of the class' purpose, and a list of the contributing authors.
- 1.4 All comments should be properly punctuated and grammatically correct.
- 1.5 All comments should precede the referencing code and not exist on the same line as code.
- 1.6 Use in-line comments to separate logical sections of code within a method.

#### 2. Variables

- 2.1 All variables should use the camelCase naming convention.
- 2.2 All variable names should be descriptive of their purpose.
- 2.3 All parameter variables should begin with an underscore.
- 2.4 References to all class instance properties should be explicitly referred to as belonging to **this** object. Example:

this.myVariable;

2.5 There should be a space between the variable name, equal signs and other variables, methods or literals. Example:

this.myVariable = "15";

2.6 All variables should be declared protected or private and should be referenced by getters and setters.

### 3. Methods

- 3.1 Method names should also be styled in camel case with the first letter being lower-case.
- 3.2 Methods should not be more than 30 lines long.
- 3.3 Getters and Setters should be declared at the bottom of the class and separated from other methods by a commented double-dash line (equal character). Example:.

3.4 After the constructor, all publically accessible methods should be declared first followed by protected and private methods.

# 4. Braces and Parentheses

- 4.1 All opening braces should exist on the same line as their function or method declaration. This applies to if-then statements, switches, class declarations, method declarations... etc.
- 4.2 Opening braces should have a preceding space.
- 4.3 Closing braces should appear on the same column as the first character of the function declaration.

## Example:

```
public void myMethod (int _myParameter) {
    if (_myParameter == 4) {
        System.out.println("The parameter is four.");
    }
}
```

# 5. Whitespace and Tabs

- 5.1 All interior code should be tabbed appropriately.
- 5.2 There should be a preceding space before all parameter declarations after the first parameter.
- 5.3 There should be spaces before and after equal signs or any other comparators, logical operators or mathematical operators.
- 5.4 There should be no trailing whitespace.
- 5.5 There should be a single blank line separating methods.