Programs will be graded in several areas: **Style, Design, Program Correctness**, and **Documentation**

Style Rules:

- 1) Use **meaningful** variable names: **sum, NOT s; area, NOT a; value, NOT x**. Use one-character variables **ONLY** for array indexes. Variable names begin with lowercase.
- 2) Use blank lines to separate different parts of the program.
- 3) Use proper indentation and spaces for readability. Binary operators should have a space before and after. Unary operators should not have a space between the variable and operator.

total = amount + tax; index++;

- 4) Use indentation within classes, methods, in conditional and repetition statements.
- 5) Capitalize the class name: class SimpleInterest. Use lowercase for method names: average(). If your variable or method name consists of two or more words, use camelCase: gradeCounter, interestRate, setHeight(), convertToCelsius().
- 6) Break up long lines. Never allow code to extend into 1 inch margins.

Design Rules:

- 1) Organize your classes so that separate tasks are performed in **methods**. Do **NOT** code all tasks in **main() or a single method**. (**Once we have covered chapter 6**)
- 2) Use **meaningful** method names. Meaningful method names reduce the need for comments to explain what is happening: **convertToFahrenheit()**, **not convert()**
- 3) Do **NOT** use **break**, **continue** or **return** statements inside of a loop. Your loop **MUST** be designed so that the loop continuation condition will become false at some point.
- 4) Try to have only **ONE** return statement in a method.

Correctness Rules:

- 1) Your program **MUST** compile. **NO** points are given for any file or program that does not compile.
- 2) Test your output for correctness. You must **ALWAYS** test with values that are outside the range of the assignment to verify your code's correctness.

Documentation Rules:

- 1) Clearly describe the purpose of the program in a comment at the beginning of the program.
- 2) Comments should describe what the code is for: the purpose of any method or class, the meaning of inputs and outputs. Best comments are JavaDoc comments.
- 3) Do not comment every line. Comments should not repeat the code.
- 4) Use /* and */ for multi-line comments. Use // for comments on one line.