

## Gamma Function

### Problem 4: Quality Tools : CheckStyle

#### 1 Check Style

##### 1.1 Definition

Checkstyle is a code analysis tool used in software development to check if code is following proper rules and regulations set by java. Checkstyle is implemented in terms of modules of checks.

It includes many things like checking proper indentation, use of proper java doc, remove useless spaces and many more. It enhances the way of writing code. It can be installed in eclipse as a plugin.

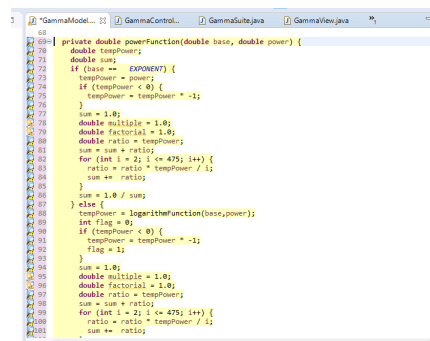


Figure 1: Checkstyle detecting code quality issue in my code

##### 1.2 Advantages

- It checks proper documentation of public methods and variables (Java Doc).
- It removes the useless indentation.
- It makes code readable to another developer
- It removes the extra use of packages which decrease the load on a compiler.

##### 1.3 Disadvantages

- Code quality not only related to indentation but it also includes refactoring which is not done in checkstyle
- It doesn't check the errors inside the code.
- It doesn't check the complexity of a program.
- It doesn't check the length of method which in coding world should not be greater than 25 lines.