# Advanced Programing Practices S0EN6441

Coding Conventions Document

-By Team 13

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## Naming conventions:

* **Classes**:

Class names should be nouns, in mixed case with the first letter of the first word capitalized and every first letter of the internal word capitalized. Try to keep class names simple and descriptive. Use whole words—avoid acronyms and abbreviations.

* **Methods**:

Methods should be verbs, in mixed case with the first letter lowercase, with the first letter of each internal word capitalized.

* **Variables:**

Variable names should be short yet meaningful. The choice of a variable name should be mnemonic— that is, designed to indicate to the casual observer the intent of its use. One-character variable names should be avoided except for temporary “throwaway” variables. Common names for temporary variables are i, j, k, m, and n for integers; c, d, and e for characters.

First letter of internal word to be capitalized.

# Declarations

* **One per line**:

One declaration per line is recommended.

Ex:

int level;

int number;

* **Placement:**

Put declarations only at the beginning of blocks.

# Whitespaces

* One blank line should always be used in the following circumstances:

• Between methods.

• Between the local variables in a method and its first statement.

• Before a block or single-line comment.

* **Blank Spaces:**

A keyword followed by a parenthesis should be separated by a space.

Ex:

while (true) {

..

}

The expressions in a for statement should be separated by blank spaces.

Ex: for (expr1; expr2; expr3)

# Comments

Implementation of comments:

* **Single-Line Comments:**

Short comments can appear on a single line indented to the level of the code that follows.

* **End-Of-Line Comments:**

The // comment delimiter begins a comment that continues to the newline. It can comment out a complete line or only a partial line.

* **Documentation Comments:**

Doc comments describe Java classes, interfaces, constructors, methods, and fields. Each doc comment is set inside the comment delimiters /\*\*...\*/, with one comment per API. This comment should appear just before the declaration:

/\*\*

\* The Example class provides ...

\*/

class Example { …}

## Indentation

* Tab made of four spaces should be used for indentation.

Note: The coding conventions have been picked selectively from the below reference.

Reference: https://www.oracle.com/technetwork/java/codeconventions-150003.pdf