## Java Naming Conventions

Java uses CamelCase as a practice for writing names of methods, variables, classes, packages and constants.

1. Classes and Interfaces : Class names should be nouns, in mixed case with the first letter of each internal word capitalised. Interfaces name should also be capitalised just like class names.

interface Bicycle

class MountainBike implements Bicyle

interface Sport

class Football implements Sport

**2. Methods**: Methods should be verbs, in mixed case with the first letter lowercase and with the first letter of each internal word capitalised.

Examples:

void changeGear(int newValue);

void speedUp(int increment);

void applyBrakes(int decrement);

3. Variables: Variable names should be short yet meaningful.

* Should not start with underscore(‘\_’) or dollar sign ‘$’ characters.
* Should be mnemonic i.e, designed to indicate to the casual observer the intent of its use.
* One-character variable names should be avoided except for temporary variables.
* Common names for temporary variables are i, j, k, m, and n for integers; c, d, and e for characters.

Examples:

// variables for MountainBike class

int speed = 0;

int gear = 1;

Private field datatype\_listItem

Variable datatype\_listOfValues

Swing :

EditText: etName\_uiName Example: etUserName\_login

Button: btnName\_uiName Example: btnCreate\_backToLogin

Parameter typeName

4. Constant variables:

* Should be all uppercase with words separated by underscores (“\_”).
* There are various constants used in predefined classes like Float, Long, String etc.

Examples:

static final int MIN\_WIDTH = 4;

// Some Constant variables used in predefined Float class

public static final float POSITIVE\_INFINITY = 1.0f / 0.0f;

public static final float NEGATIVE\_INFINITY = -1.0f / 0.0f;

public static final float NaN = 0.0f / 0.0f;

5. Packages:

* The prefix of a unique package name is always written in all-lowercase ASCII letters and should be one of the top-level domain names, like com, edu, gov, mil, net, org.
* Subsequent components of the package name vary according to an organisation’s own internal naming conventions.

Examples:

com.sun.eng

com.apple.quicktime.v2

// java.lang packet in JDK

java.lang

6. P**arenthesis:**

public void pickup(){

}

/////

if(){

}

//

first = second;

first = first + second;