## Naming Conventions

Naming conventions make programs more understandable by making them easier to read. They can also give information about the function of the identifier-for example, whether it's a constant, package, or class-which can be helpful in understanding the code.

1. **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, currently com, edu, gov, mil, net, org, or one of the English two-letter codes identifying countries as specified in ISO Standard 3166, 1981. Subsequent components of the package name vary according to an organization's own internal naming conventions.

**Example -** com.apple.quicktime.v2 , edu.cmu.cs.bovik.cheese

1. **Classes -** Class names should be nouns, in mixed case with the first letter of each internal word capitalized. Try to keep your class names simple and descriptive. Use whole words-avoid acronyms and abbreviations.

**Example -** class StringBuilder**,** classLocalDateTime**,** etc.

1. **Interfaces -** Interface names should be capitalized like class names.

**Example -** interface [CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html), [Serializable](https://docs.oracle.com/javase/8/docs/api/java/io/Serializable.html), [Temporal](https://docs.oracle.com/javase/8/docs/api/java/time/temporal/Temporal.html), [TemporalAccessor](https://docs.oracle.com/javase/8/docs/api/java/time/temporal/TemporalAccessor.html), etc.

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

**Example -** [capacity](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuilder.html#capacity--)(), [append](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuilder.html#append-int-)(), [toString](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuilder.html#toString--)(), [getDayOfMonth](https://docs.oracle.com/javase/8/docs/api/java/time/LocalDateTime.html#getDayOfMonth--)(), [getMinute](https://docs.oracle.com/javase/8/docs/api/java/time/LocalDateTime.html#getMinute--)()

1. **Variables -** Except for variables, all instance, class, and class constants are in mixed case with a lowercase first letter. Internal words start with capital letters. Variable names should not start with underscore \_ or dollar sign $ characters, even though both are allowed.

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.

**Example -** String myName = “Anuj”;

1. **Constants -** The names of variables declared class constants and of ANSI constants should be all uppercase with words separated by underscores ("\_").

**Example -** static final int MIN\_WIDTH = 4;