Java Identifiers & Naming Conventions

Identifiers in Java are programmer-defined names for variables, methods, classes, packages, and interfaces. They improve code readability and maintainability. Below are the key rules, conventions, and best practices.

Rules for Identifiers:

- Can contain alphabets, digits, underscore (_) and dollar (\$).
- · Cannot begin with a digit.
- Java is case-sensitive (e.g., total and Total are different).
- No limit on length.
- Cannot be a Java keyword.

Examples:

■ Legal: arena, s_count, marks40, class_one

■ Illegal: 1sst, 2nd number, oh!god

Naming Conventions:

Element	Convention	Example
Class / Interface	PascalCase	StudentDetails
Method	camelCase	calculateMarks()
Variable	camelCase	studentAge
Constant	UPPERCASE	MAX_VALUE
Package	lowercase	com.prowessapps.utils

Best Practices:

- Use meaningful names (e.g., studentAge instead of x).
- Maintain consistency across project.
- Avoid confusing abbreviations unless standard.
- Don't start with underscores or dollar signs (except generated code).
- Class names = nouns, Method names = verbs.
- Follow community standards.