



JAVA

JAVA PACKAGE

- A **java package** is a group of similar types of classes, interfaces and sub-packages.
- Package in java can be categorized in two form, built-in package and user-defined package.
- There are many built-in packages such as java, lang, awt, javax, swing, net, io, util, sql etc.
- **Advantage of Java Package**
 - Java package is used to categorize the classes and interfaces so that they can be easily maintained.
 - Java package provides access protection.
 - Java package removes naming collision.

ACCESS MODIFIERS IN JAVA

- The access modifiers in Java specifies the accessibility or scope of a field, method, constructor, or class. We can change the access level of fields, constructors, methods, and class by applying the access modifier on it.
- There are four types of Java access modifiers:
 - **Private**
 - **Default**
 - **Protected**
 - **Public**

ACCESS MODIFIERS IN JAVA

- **Private:** The access level of a private modifier is only within the class. It cannot be accessed from outside the class.
- **Default:** The access level of a default modifier is only within the package. It cannot be accessed from outside the package. If you do not specify any access level, it will be the default.
- **Protected:** The access level of a protected modifier is within the package and outside the package through child class. If you do not make the child class, it cannot be accessed from outside the package.
- **Public:** The access level of a public modifier is everywhere. It can be accessed from within the class, outside the class, within the package and outside the package.

ACCESS MODIFIERS IN JAVA

Access Modifier	within class	within package	outside package by subclass only	outside package
Private	Y	N	N	N
Default	Y	Y	N	N
Protected	Y	Y	Y	N
Public	Y	Y	Y	Y

FINAL KEYWORD IN JAVA

- The **final keyword** in java is used to restrict the user. The java final keyword can be used in many context. Final can be:

- variable
- method
- class

Java Final Keyword

⇒ Stop Value Change

⇒ Stop Method Overriding

⇒ Stop Inheritance

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FINAL KEYWORD IN JAVA

- **Java final variable**
- If you make any variable as final, you cannot change the value of final variable(It will be constant).
- **Java final method**
- If you make any method as final, you cannot override it.
- **Java final class**
- If you make any class as final, you cannot extend it.
- ***Constructor cannot declare as final because constructor is never inherited.***