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ACCESS MODIFIERS =>

Types of access modifiers in java. There are 4 types of access modifiers

1. Private
2. Default
3. Protected
4. Public

1. Default access Modifier :- When no access modifier is specified for a class, method (or) data member - It is said to be having the default access modifier by default.

The data members, classes or methods that are not declared using any class or method access modifiers having default access modifiers are accessible only within the same package.

2. Private Access Modifier:- It is specified using the keyword "Private". The method or data members declared as private are accessible only within the class in which they are declared.

3. Protected Access Modifier:- It is specified using the keyword "Protected".

The method or data members declared as protected are accessible not within the same package OR subclasses in different package.

4. Public Access Modifier:- It is specified using the keyword "Public".

It has the widest scope among all other access modifiers.

	DEFAULT	PRIVATE	PROTECTED	PUBLIC
1. SAME CLASS	Y	Y	Y	X
2. SAME PACKAGE SUBCLASS	Y	N	Y	Y
3. SAME PACKAGE Non-SUB CLASS	Y	N	Y	Y
4. DIFFERENT PACKAGE SUB CLASS	N	N	Y	Y
5. DIFFERENT PACKAGE Non-SUB CLASS	N	N	N	X

12 Modifiers in JAVA :-

1. Public
2. Private
3. Protected
4. Default
5. Final
6. Synchronized
7. Abstract
8. Native
9. Strictfp
10. Transient
11. Volatile

Api = Application Programmable Interface

AWT = Abstract Window Toolkit

JDBC = Java Database Connection

PACKAGES :- A package is a collection of classes & interfaces

Java Api contains different packages

java.lang String, Thread, Math

Default
Useful for all java
app it is imported by
Default

java.util Scanner, Date, Calendar

Utility class such as

java.awt Frame, Window

GUI components

java.awt.event MouseListener,
KeyListener

event handling

java.applet Applet, AppletContent

to create applets

java.sql DriverManager

jdbc

java.net Socket

networking

java.io Buffered Reader

IO operations