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| --- | --- | --- | --- | --- | --- |
| Access | Same Class | Same Package (Inheritance) | Same Package  (Object) | Different Package (Inheritance) | Different Package (Object) |
| Private | Yes | No | No | No | No |
| Public | Yes | Yes | Yes | Yes | Yes |
| Default | Yes | Yes | Yes | No | No |
| Protected | Yes | Yes | Yes | Yes | No |

Private – Within Class access

Default – Package level Access

Protected – Everywhere in Same Package and Only inherited class in different package

Public - – Everywhere

|  |  |  |  |
| --- | --- | --- | --- |
| Access Modifiers | Abstract | Static | Final |
| Class | Cannot create object | NA | Can’t inherit |
| Method | Cannot create the body for the method | * no need to create object. we can call directly by a method name for same and different class (Using inheritance for Diff Class) * without using extends "Classname.methodname();" | Can’t override |
| Variable | NA | * no need to initialize. It will give default value for same and different class (Using inheritance for Diff Class) * without using extends "Classname.variablename" | Cant modify |

|  |  |  |  |
| --- | --- | --- | --- |
| Types of Variable | Local | Instance | Static |
| Declared place | Inside the method or block or Constructor | Inside Class and outside method | Inside Class and outside method |
| Scope | Within Method | Throughout life of Object | Life of the Class |
| Activated | When Control Enters the method | When the Object Created | When the Class Created |
| Deactivated | When Control exits the method | When the Object Destroyed | When the Class Destroyed |
| Access Specifier | Not Allowed | Allowed | Allowed |
| Print the default Value | Not Allowed | Allowed | Allowed |
| Memory | Stack | Heap | Static |
|  |  |  |  |
|  |  |  |  |