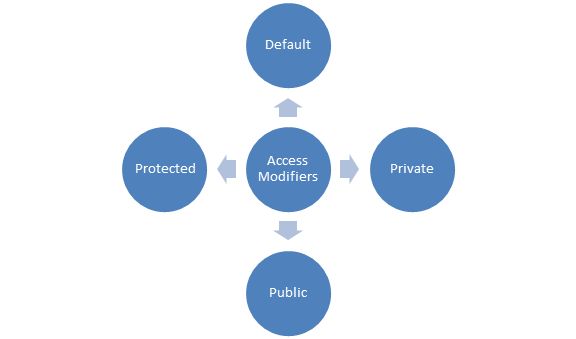
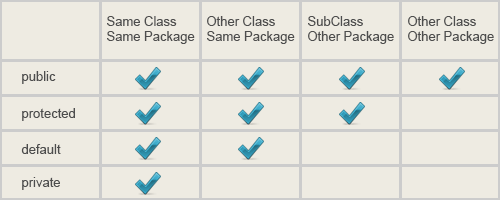
Access Modifiers in Java



* Modifiers Scope



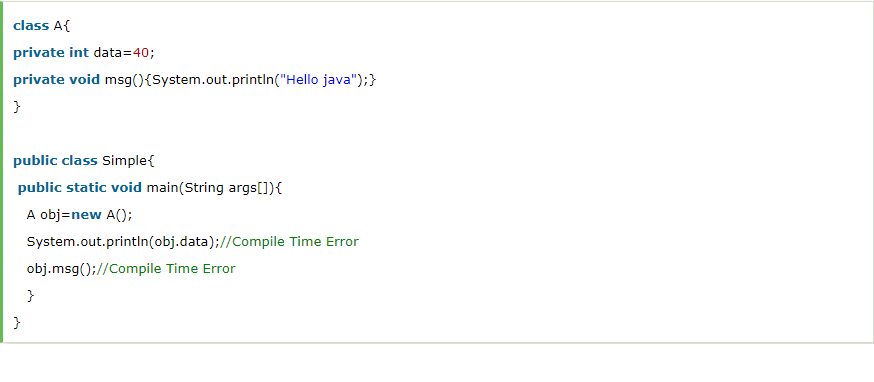
* The access modifier in java specifies accessibility (scope) of a data member, method, constructor or class.

1) Private access modifier

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| --- |
| The private access modifier is accessible only within class. |

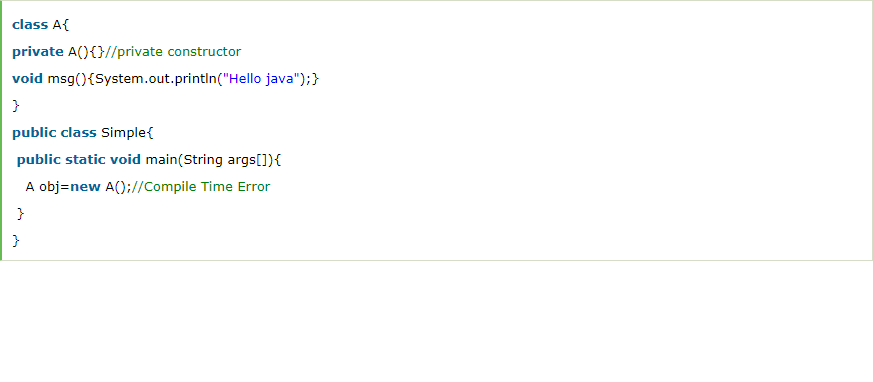
Simple example of private access modifier

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| --- |
| * In this example, we have created two classes A and Simple. A class contains private data member and private method. We are accessing these private members from outside the class, so there is compile time error. |



### Role of Private Constructor

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| --- |
| * If you make any class constructor private, you cannot create the instance of that class from outside the class. For example: |

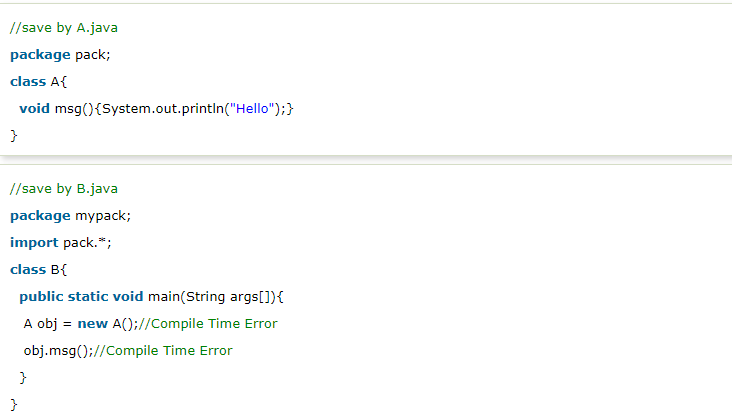


### 2) Default access modifier

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| * If you don't use any modifier, it is treated as **default** by default. The default modifier is accessible only within package. |

### Example of default access modifier

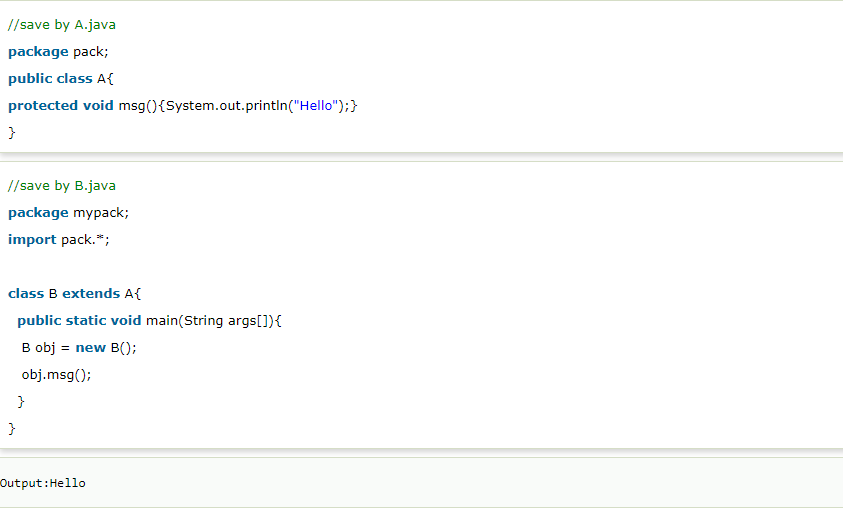
|  |
| --- |
| * In this example, we have created two packages pack and mypack. We are accessing the A class from outside its package, since A class is not public, so it cannot be accessed from outside the package. |



### 3) Protected access modifier

* The **protected access modifier** is accessible within package and outside the package but through inheritance only.
* The protected access modifier can be applied on the data member, method and constructor. It can't be applied on the class.

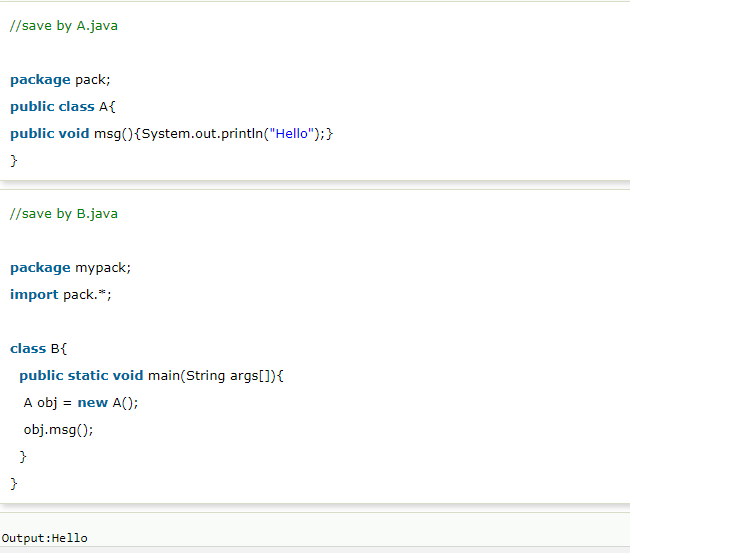
### Example of protected access modifier



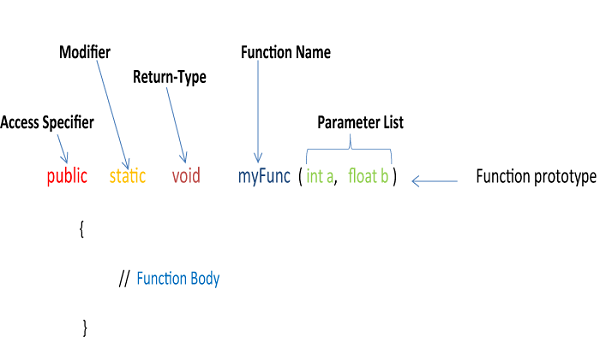
### 4) public access modifier

|  |
| --- |
| * The **public access modifier** is accessible everywhere. It has the widest scope among all other modifiers. |

### Example of public access modifier



Functions/Methods in Java



* What is method in Java?
* Methods are collections of statements for performing actions.
* Method consists of name, return type, access modifier and parameters.
* Method can return value Or can return nothing in which case type is void
* Way to write method in Java
* Method with no return type no parameter
* Method with parameters
* Method with return type and parameters.

