

# package

- Package can be defined as the grouping of related types classes , interfaces that providing access to protection namespace management.
- In order to prevent naming conflicts ,controls access and making searching / locating and usage of classes, interfaces easier.
- Java package is used to categorize the classes and interfaces so that they can be easily maintained .
- Packages can be provide reusability of code.

Using a package:

To use classes from package we need to **import** them using the import keyword .

# Import

- Import is used to include other classes or entire packages into code.
- It imports all the classes within the package .
- It is used to bring other classes and packages into the current file.
- Import allows to use those classes without specifying their full packaging names.

# Import vs package

Using package , you can create a group of related classes , where as import allows you to use classes from other packages.

Package : Defines the namespace of the class .

Import : Includes other classes/packages to be used in the current file.

Package : Helps in organizing classes into a directory structure.

Import: simplifies the use of classes from other packages by avoiding fully qualified class names.

# Public

- public keyword is an access modifier used for attributes , classes , methods and constructors.
- Public access specifier is the most permissive access level. There are no restrictions on accessing public members .

# New

- The **new** keyword in java is used to create an instance of class .
- It is used to allocate the memory for the object on the heap.
- The new keyword in java calls the constructor of a class to initialize the object state.