

ASSIGNMENT

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Java Package

A java Package is collection of similar types of classes.

Interfaces and Sub-Packages

Package in Java can be categorized in to types.

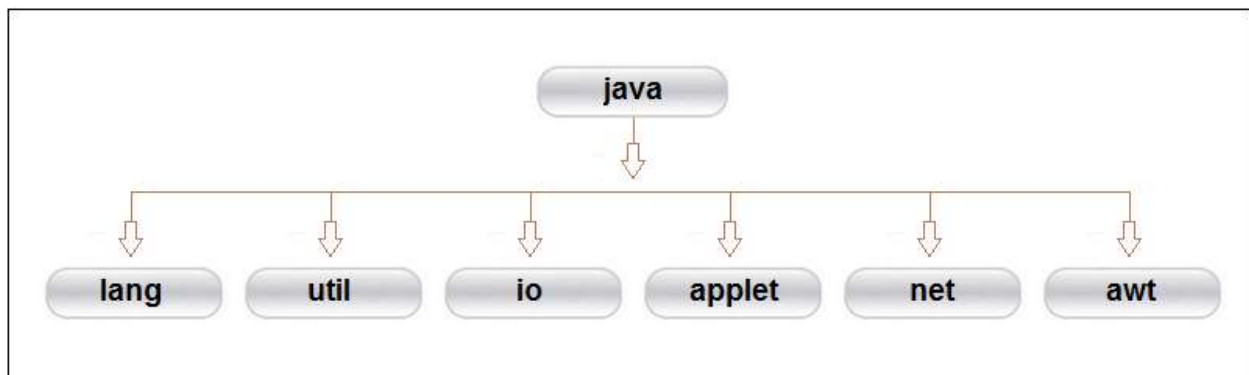
- 1. Java API package (built in Package)*
- 2. User-defined package (Defined by User)*

There are many Built in packages such as Java, lang, awt, javax, swing, net, io, util, sql etc.

Java package also provides access protection

JAVA API PACKAGES

Java API(Application program Interface) Provides a large number of classes grouped into different packages according to functionality.



Java.applet - Provides the classes necessary to create an applet and the classes an applet uses to communicate with its applet context.

Java.awt - Contains all of the classes for creating user interfaces and for painting graphics and images.

Java.io - Provides for system input and output through data streams, serialization and the file system.

Java.lang - Provides classes that are fundamental to the design of the Java programming language.

Java.net - Provides the classes for implementing networking applications.

Java.util - Contains the collections framework, legacy collection classes, event model, date and time facilities, internationalization, and miscellaneous utility classes (a string tokenizer, a random-number generator, and a bit array).

Using API Packages

The import Statement are used at the top of the file, before any class declarations. The first statement allows the specified class in the specified package to be imported.

to use a class or a package from the library, you need to use the **import** keyword:

Syntax:

```
import package.name.Class; // Import a single class
```

```
import package.name.*; // Import the whole package
```

To create a package, use the **package** keyword:

```
package mypack;  
class MyPackageClass {  
    public static void main(String[] args) {  
public void msg(){  
    System.out.println("This is my package!");  
    }  
}
```

Using Import Package

```
package mypack;  
import mypack.*; // Package  
class B{  
    PSVM (string a[]){  
    MypackageClass.obj = new MyPackageClass();  
    Obj.msg();  
    }  
}
```