

# UNIT-IV

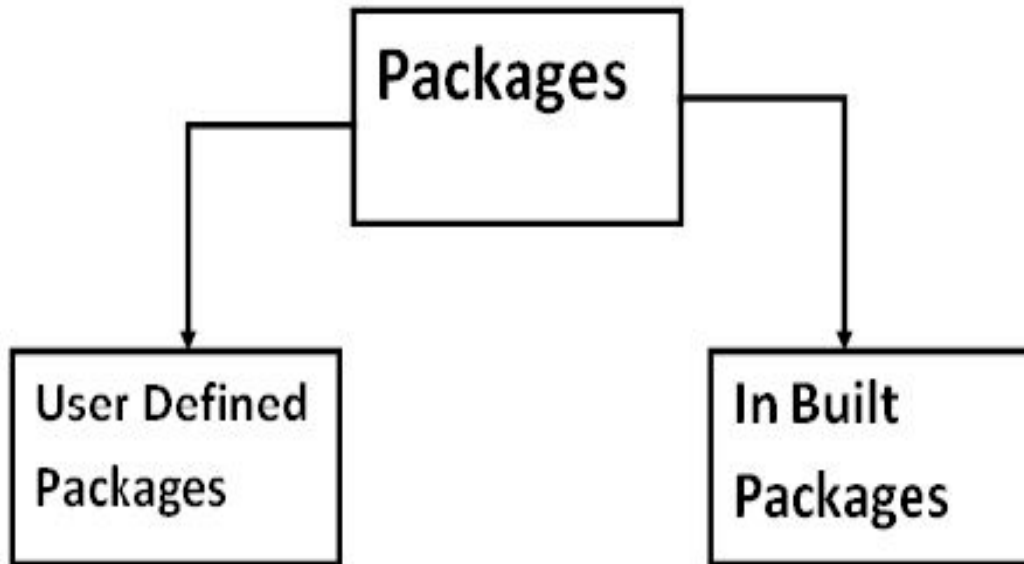
## Inheritance, Packages & Interfaces

# Package

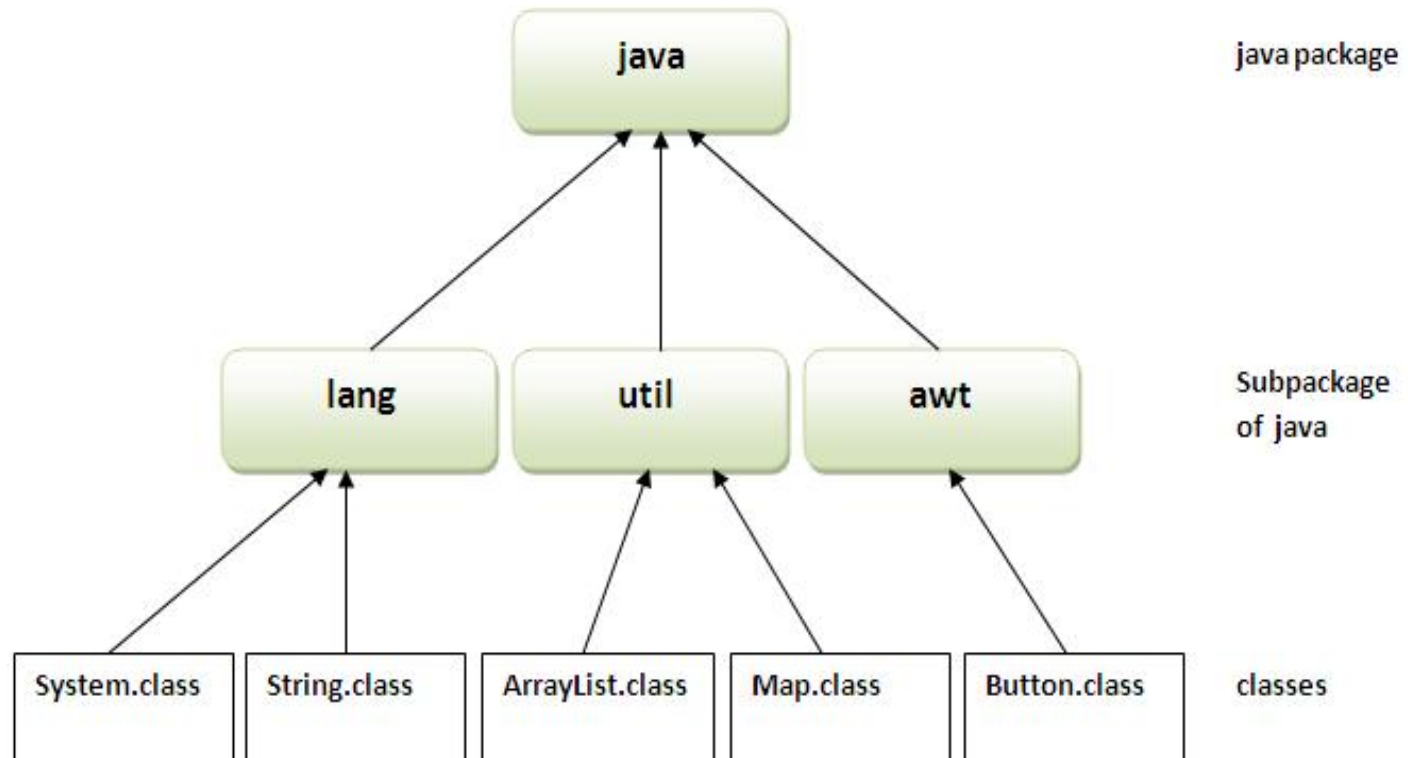
- Packages are used in Java in order to **prevent naming conflicts**, to **control access**, to make **searching/locating and usage of classes, interfaces, enumerations and annotations easier, etc.**
- A **Package** can be defined as a **grouping of related types (classes, interfaces, enumerations and annotations) providing access protection and namespace management.**

# Package

- Basically, there are **2 types** of packages in JAVA.



# In Built Package



# Package

- **Advantage :**
  - Java package is used to **categorize** the classes and interfaces so that they can be easily maintained.
  - Java package **provides access protection.**
  - Java package **removes naming collision.**
- The **package keyword** is used to create a package in java.

# Package

- **Creating package Syntax:**

**package package\_name;**

- **Example:**

**package employee;**

# Package

**package first;**

```
public class Simple // simple.java
```

```
{  
  
    public static void main(String args[])  
  
    {  
  
        System.out.println("Package is created");  
  
    }  
  
}
```

# Package

- **Compile java package:**

```
javac -d Destination_folder file_name.java
```

- **After compile package,**
  - The folder with the given package name is created in the specified destination,
  - the compiled class files will be placed in that folder.



# Package

- **Compile** : `javac -d . Simple.java`
- **Run** : `java first.Simple`
- **Output:** Package is created
- **Note:**
  - The `-d` is a switch that tells the compiler where to put the class file. It represents destination.
  - The `.` represents the current folder.