Packages

Package

- Group of similar types of classes, interfaces and sub-packages.
- Types of package:
 - Built-in package
 - User-defined package.

Benefits of packages



Java API packages or built-in packages

- java.lang: It contains classes for primitive types, strings, math functions, threads, and exceptions.
- java.util: It contains classes such as vectors, hash tables, dates, Calendars, etc.
- java.io: It has stream classes for Input/Output.
- java.net: Classes for networking

User defined package

Packages that are defined by the user

```
package myPackage;
public class MyClass
public void getNames(String s)
        System.out.println(s);
```

User defined package(Contd...)

```
import myPackage.MyClass;
public class PrintName
  public static void main(String args[])
           String name = "Welcome to C2TC Program";
           MyClass obj = new MyClass();
            obj.getNames(name);
```

Using Packages

- Ways to access the package from outside the package.
 - import package.*;
 - 2. import package.classname;
 - 3. fully qualified name.

Packages - Example

```
<sup>‡</sup> Package Explo... × □ □ □ demo.java × □ demo1.java
              E 80 %
                      1 package com.mypackage;

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  JRE System Library []
                      3 public class demo {
 public int i=10;
    # (default package)
                              public void setname(String name) {

→ 
⊕ com.mypackage

       demo.java
                                   System.out.println(name);

→ 

# com.mypackage1

       demo1.java
                       8
                      9 }
                     10
```

Packages - Example

```
■ Package Explo... × □ □ demo.java □ demo1.java ×
             巨多。
                    1 package com.mypackage1;

✓ 

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 ▶ ■ JRE System Library [J
                     3 import com.mypackage.demo;
 # (default package)
                    5 public class demo1 {

→ 
⊕ com.mypackage

     demo.java
                     6

→ # com.mypackage1

                           public static void main(String[] args) {
                     79
      demo1.java
                                String name ="Welcome to C2TC Program";
                    8
                                demo d1=new demo();
                    9
                                d1.setname(name);
                   10
                                System.put.println(d1.i);
                   11
                   12
                   13
                   14
                   15 }
                   16
```

Packages - Example

Packages – Example(Contd...)

Packages – Example(Contd...)

```
package myPack;
import pack.*;
class B
  public static void main(String args[]) {
A obj = new A();
C obj1 = new C();
obj.msg();
obj1.msg();
```