

# Encapsulation

Shristi Technology Labs

# Contents

- Package
- Import
- Access specifiers
- Java Bean

# Package

- Containers of class(just a folder or directory)
- Can have any number of classes( n number of files)
- Has to be the first statement in a class

**(ie) *package packagename***

– eg. **package com.test**

## Example

***package com.training;***

***public class Employee{                    }***

- Class can be accessed only by ***packagename.classname***
  - eg. ***com.training.Employee***

# Import

- Is used to import other classes into this class
- This ***import*** statement has to be the next line to package statement.
- Can have any number of imports
- ***java.lang*** package is imported by default
- To import use
  - `import package.subpackage.*;`
  - `import package.subpackage.classname;`

**eg. `import com.exceptions.*;`**  
**`import com.exceptions.Test;`**

# Access specifiers

- Binding of code and data
- Achieved using access specifiers
- Access Specifiers are
  - **public**
  - **protected**
  - **default**
  - **private**

class	method	Variable	
public default final abstract static (toplevel nested)	public protected default private final abstract static synchronized	instance	local
		public protected default private final static transient	final

# More on Access Specifiers

<b>Access Specifiers</b>	<b>Same class Same package</b>	<b>Subclass Same package</b>	<b>Other class Same package</b>	<b>Subclass Different package</b>	<b>Other class Different package</b>
public (everywhere)	Yes	Yes	Yes	Yes	Yes
protected (package+ kids)	Yes	Yes	Yes	Yes	No
default (package level)	Yes	Yes	Yes	No	No
private (same class)	Yes	No	No	No	No

# Summary

- Package
- Import
- Access specifiers
- Java Bean

**Thank You**