Saraswati Vandana

या कुन्देन्दु तुषार हार धवला
या शुभ्र वस्त्रान्विता ।
या वीणा वर दंड मंडितकरा
या श्वेत पद्मासना ॥

या ब्रह्मा अच्युत शंकर प्रभ्रतिभिः
देवै सदा पूजिता ।
सा मां पातु सरस्वती भगवती
निःश्रेयश जाड्यापह ॥

Java Programming
(1ET1030406)

Unit-5 : Package
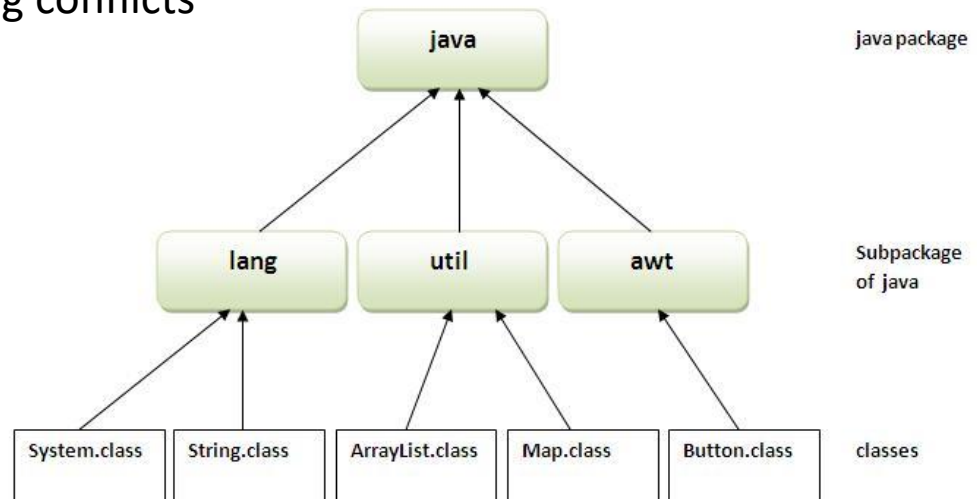
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Content

- Use of Package
- CLASSPATH
- Import statement
- Static import
- Access control

Use of Package

- To prevent naming conflicts
- To control access
- To easily access
- To categorize

Create & run Package

```java
package mypack;
public class Simple
{
 public static void main(String args[])
    {
    System.out.println("Welcome to package");
    }
}
```

```
javac -d mypack Simple.java
java mypack.Simple
```

CLASSPATH

```
java -classpath c:\classes mypack.Simple
```
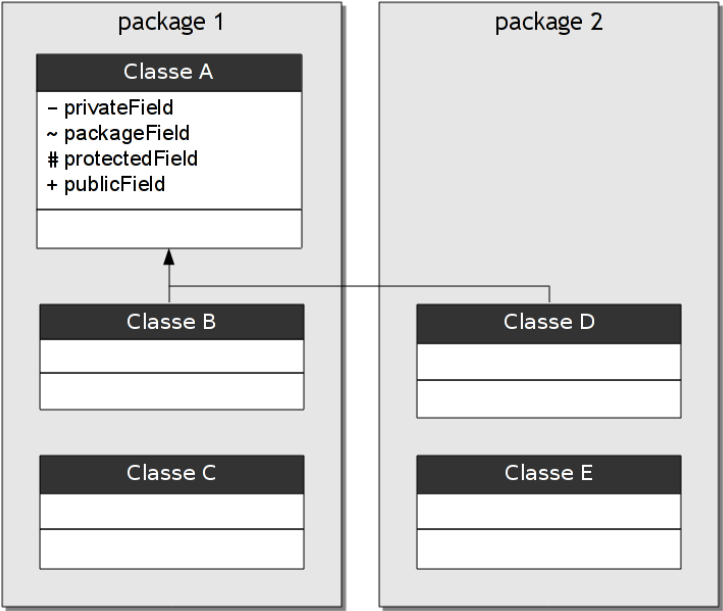
- where to look for class file

Import statement

```java
package mypack;
import pack.A;
import pack2.*;
class B{
  public static void main(String args[]){
   A obj = new A();
   obj.msg();
  }
}
```

Static import

```java
import static java.lang.System.*;
class StaticImportExample{
  public static void main(String args[]){
   out.println("Hello");//Now no need of System.out
   out.println("Java");
   }
}
```

Access control

package 1

Classe A

- − privateField
- ~ packageField
- # protectedField
- + publicField

Classe B

Classe C

package 2

Classe D

Classe E

	Classe A	Classe B	Classe C	Classe D	Classe E
privateField	˅				
packageField	˅	˅	˅		
protectedField	˅	˅	˅	˅	
publicField	˅	˅	˅	˅	˅

References:

- http://www.javatpoint.com/package
- http://www.javatpoint.com/static-import-in-java
- https://docs.oracle.com/javase/tutorial/java/javaOO/accesscontrol.html

Questions/Comments