

- 1) write the differences b/w nested classes and inner classes with minimum 5 differences
- 2) List the advantages of packages
- 3) List any 10 interfaces or classes of java.io Package

2) Advantages of packages

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programming
in Java
(Oxford)

- * A package provides a unique namespace for the classes it contains
- * A package can contain the following
 - classes
 - Interface
 - Enumerated types
 - Annotations
- * Two classes in two different packages can have the same name, which is not possible without using the package mechanism.
- * Packages provide a mechanism to hide its classes from being used by programs or packages belonging to other classes

②

1) Differences b/w nested class and inner class

Nested class

- * Has access to the members.
- * Has access to including private classes in which it is nested.
- * The scope of its bounded by the scope of its enclosing class.
- * It is not applicable to all situations.
- * It is not allowed for the original 1.0 specification by java

- 1) Buffered input stream
- 2) Buffered output stream
- 3) Buffered Reader
- 4) Buffered writer
- 5) File Descriptor
- 6) File Input stream
- * File Reader

Inner class

- * Has access to the variables.
- * It ^{is} ~~has~~ non-Static which has access to all the variables and methods of its outer class and may refer to them directly.
- * The inner class name ^{inner} is defined with in the scope of outer class.
- * It is within any block space.
- * It is allowed for the original 1.0 specification by java.

- 8) File writer
- 9) Filter Reader
- 10) Filter writer