

25) Write the differences between Nested classes & Inner classes with min 5 differences.

M. Saranya
CSM
2404196624

26) List the advantages of packages.

28) List any 10 classes / Interface of java.io packages.

1A) Nested classes

- i) ~~A~~ Nested class has access to the members
- ii) Nested class includes private members, of the class in which it is nested.
- iii) The scope of a nested class is bounded by the scope of its enclosing class.
- iv) Nested classes are not applicable to all situations
- v) Nested classes were not allowed by the original 1.0 specification for Java.

Inner classes

- i) An inner class has the access to all the variables
- ii) An inner class includes methods of its outer class
- iii) An inner class named Inner is defined within the scope of class outer.
- iv) Inner classes are applicable within any block scope
- v) Inner classes were allowed by the original 1.0 specification for Java

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2A) Advantages of packages

- 1) Packages are good mechanism for compartmentalizing diverse classes from each other.
- 2) The built-in Java classes are stored in packages.
- 3) The Import statement is a convenience to the programmers

It is not technically needed to write a complete Java Program.

(2)

4. Packages add another dimensions to access control
5. Packages act as containers for classes and other Subordinate packages

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3A (i) Buffered Input stream

(ii) Buffered output stream

(iii) Buffered Reader

(iv) Buffered writer

(v) file descriptor

(vi) file Input stream

(vii) file Reader

(viii) file writer

(ix) filter Reader

(x) filter writer.