

Open Book Test

- 1] Write the differences between Nested classes and Inner classes with minimum 5 differences. -Pg.no-157 Herbert Schildt (-Complete) Reference.
- 2] List the advantages of packages. -Pg.no-200
- 3] List any 10 classes or interfaces of java.io package? -Pg-680.

1] Nested class	Inner Class
<ul style="list-style-type: none"> • A class within another class is known as Nested class. • Scope of It cannot refer to members of its enclosing class directly. • Static keyword is used • Sample program: <pre> public class OuterDemo { static int x=10; public class static Nested { public void display() { s.o.pln("Value of x" + x); } } } </pre> 	<ul style="list-style-type: none"> • An inner class is a non-static nested class. • It has access to all the variables, methods within the scope of its enclosing class. • Static keyword is not used. • Sample program: <pre> public class Outer { private int x=10; class Inner { void display() { s.o.pln("Value of x" + x); } } } </pre>

2] Advantages of packages:

- (i) Same class name can be created in Multiple packages.
- (ii) Similar classes are grouped based on their functionalities.
- (iii) Reduces the number of lines in the code.
- (iv) A package can be accessed in any programs.
- (v) Packages act as containers for classes and other subordinate packages.
- (vi) Accessing the classes becomes easy by importing the complete package at a time.

3] Classes/Interfaces in java.io :

- * Buffered Input Stream
- * Buffered Reader
- * Buffered Output Stream
- * Console
- * File
- * Data Input Stream
- * Data Output Stream
- * File Reader
- * File Permission
- * File Input Stream
- * File Output Stream

java I/O Input & Output :

Used to process the input and produce the output.

Java uses concept of stream to make I/O operation faster.

There error also known as value error.

used because of wrong value function without initialization trying to use the variable.

we can using a[] of array index out of bound.

in java we have two types of error.

1. compile time error and 2. runtime error.

1. compile time error - error which is found at the time of compilation.

2. runtime error - error which is found at the time of execution.

the error which is given to user is called as runtime error.

if there will be problem in the program it will be known as runtime error.

all the values of array are stored in memory.

from temporary database.

store the data before the termination.

Responsible for storing the data.

Due to wrong value - termination program & loss of data.