

- 1) Write a differe between nested class and inner class with minimum 5 differences.
- 2) List the advantages of packages
- 3) List any 10 interfaces (or) class of java.io package

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1) Nested Class

- A class within another class; Such classes are known as nested classes.
- A nested class has access to the members, including private member
- Nested Classes are not used in most day-to-day programming. they are particularly helpful when handling events in an applet
- Nested class are two types static & non-static

Program:

```
Class student {
    int no;
    String name;
    dob DOB;
}
Class dob {
    int dd, mm, yy;
}
```

Inner class

- An inner class is a non-static nested class.
- It has access to all of the variables & methods of its Outer
- Inner classes can be used to simplify the code needed to handle certain type of events
- Inner class is only one type non-static

Program:

```
Class student {
    int no;
    String name;
    Class dob {
        int dd, mm, yy;
    } DOB;
}
```


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2)

* Same name of class can be created in multiple packages

* Similar class are grouped based on there concept

* The Accessing of class becomes easy by importing the complete package at a time

* To create a package is quite easy: simply include a package command as the first statement in the java source file.

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3)

i)

vi) Buffered Input Stream

vii) Buffered Output Stream

viii) Byte Array Input Stream

ix) Byte Array Output Stream

x) Data Input Stream

xi) Data Output Stream

xii) File Input Stream

xiii) File Output Stream

xiv) Filter Input Stream

xv) Filter Output Stream