

20/9/25

Open Book Test

- ① Write the diff b/w Nested classes & inner classes with min 5 diff
- ② List the advantages of Packages
- ③ List any 10 interfaces (or) classes of java.io package

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Nested classes	Inner classes
<p>① It is possible to define a class within another class. Such classes are known as nested class.</p> <p>② It has access to the members including private members.</p> <p>③ nested classes are not used in most day-to-day programming.</p> <p>④ Nested classes are two types - static & non-static.</p>	<p>① It is a non-static nested class.</p> <p>② It has access to all of the variables and methods of outer class.</p> <p>③ Inner classes are used to simplify the code needed.</p> <p>④ Inner class comes has only 1 type - non-static.</p>

⑤ Program

```
class Student {  
    int no;  
    string name;  
    dob DOB;  
}  
class dob {  
    int dd, mm, yy;  
}
```

⑤ Program

```
class Student {  
    int no;  
    string name;  
    class dob {  
        int dd, mm, yy;  
    } DOB;  
}
```

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Advantages of Packages

- ① Same ^{name} ~~no~~ of classes can be created in multiple packages
- ② Similar classes are grouped based on their concept
- ③ The Accessing of classes becomes easy by importing the complete package at a time
- ④ Package is quite easy - simply include package.

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→ The Classes of Java.io are:-

- ① Buffered Input Stream
- ② Buffered Output System
- ③ ByteArray Input Stream
- ④ ByteArray Output Stream
- ⑤ Data ~~4~~ Input Stream
- ⑥ Data Output Stream
- ⑦ FileInputStream
- ⑧ FileOutputStream
- ⑨ ~~Input~~ Stream
- ⑩ OutputStream