1) write differences between nested classes and Inner classes. with minimum 5 differences

2) List the advantages of packages

3) List any 10 classes / interfaces of Java. io Package.

Answers

Q1) Nested class :-

→ A nested class is any class inside another class.

→ It can be static or non static

→ A static nested class cannot access non static members of outer class directly.

→ One can create an object of a static nested class without creating an object of the outer class.

→ Syntax example:
Outer. StaticNestedobj = new
Outer.StaticNested( );

Inner class :-

→ An inner class is a non static nested class

→ It is always non static.

→ An inner class can directly access all members of outer class.

→ One can create an object of the outer class before creating its inner class object.

→ Example usage : Event handling, data hiding

Q3) Advantages of Packages :-

1) Encapsulation and modularization -
Packages help organize related classes and interfaces together and easy to maintain

2) Ensures reusability of code -
Once a package is created, its classes can be reused in other programs also.

3) Access Protection -
Packages help control access to classes and members using access modifiers.

4) Provides with easy maintainance.

5) Gives a hierarchical structural approach which helps in improving the overall organization, clarity and scalability.

93) Classes/Interfaces of java·io Package

1. File — represents files in the file system
2. FileInputStream — Used to read bytes from file.
3. FileOutputStream — Used to write bytes to file.
4. FileReader — Used to read characters from file
5. FileWriter — Used to write characters to a file.
6. BufferedReader — Reads text from character input stream using buffering.
7. BufferedWriter — Writes text to a character output stream using buffering.
8. InputStreamReader — Converts byte streams into character streams
9. ObjectInputStream — Deserializes objects and primitive data from a stream.
10. ObjectOutputStream — Serializes objects and writes them to an output stream.