JAVA

① Write the differences between nested classes and inner classes with minimum 5 differences. Pg. No:

② List Advantages of packages Pg. No:

③ list any 10 classes (or) Interfaces of java.io packages. Pg. NO:- 582

Answers:-

3Ans:- The 10 classes (or) Interfaces of java.io packag

1. BufferInputStream	file writer	- PipedOutput Stream.
2. BufferOutput Stream -	filterInputStream	- pipedReader.
3. BufferReader	- FilterOutputStream	- pipedWriter
4. BufferWriter	- filterReader	- printStream.
5. Console	- ObjectInputStream	- Reader.
6. CharArray Reader	- InputStreamReader	- PushbackReader.
7. DataInput Stream -	ObjectInput stream.	- SequenceInputStream
	- GetField	-am
8. FileReader	- PipedInputStream	
9. FileOutputStream -	OutputStream	- writer
10. file Descriptor	- ObjectStreamClass	- StringReader.

Ans:- Nested classes	Inner classes
→ Defined within another class	→ Defined within another class
→ not associated with an instance of the outer class	→ Associated with an instance of the outer class
→ Nested classes are declared with static keyword.	→ Inner class are not declared with static keyword.

2Ans:- Advantages of packages:-

i) creating packages are easy, just by using the command called package.

ii) packages provide encapsulation by grouping related classes together

iii) with packages, it is easier to maintain and update code as related classes are grouped together, making it simpler to implement changes

iv) packages promote code reuseability by allowing classes to be easily shared and reused across different projects or modules.