

Interface

1) What is an interface?

Ans An interface in java is a mechanism that is used to achieve complete abstraction. It is basically a kind of class that contains only constants and abstract methods.

2) Which modifiers are allowed for methods in an interface?

Ans Only abstract & public modifiers are allowed for methods in interfaces.

3) What is the use of interface?

Ans There are many reasons to use interface in Java

- i) An interface is used to achieve full abstraction.
- ii) Using interface is the best way to expose our project's API to some other project.
- iii) Programmers use interface to customise features of software differently for different objects.
- iv) By using ~~object~~ interface, we can achieve the functionality of multiple inheritance.

4) Different b/w abstract class & interface?

<u>Abstract class</u>	<u>Interface</u>
1) Abstract class can have abstract & non-abstract methods	Interface can have only abstract methods, it can have default & static method also.
2) Doesn't support multiple inheritance	Supports multiple inheritance.
3) Can have final, non-final, static & non-static var.	Only have static & final variables.
4) Can also provide implementation of interface	Can't provide implementation of abstract class.
5) abstract keyword is used to declare abstract class	An interface keyword is used
6) Can extend another java class & implement multiple java interface	An interface can extend another java interface only.
7) Eg - <pre>public abstract class { public abstract void draw(); }</pre>	Eg - <pre>Public interface Drawable { void draw(); }</pre>