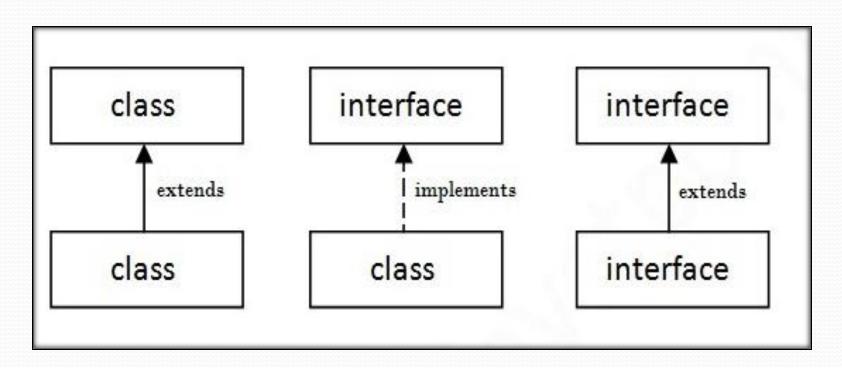
Understanding Interfaces

An interface in the Java programming language is an abstract type that is used to specify a behavior that classes must implement.

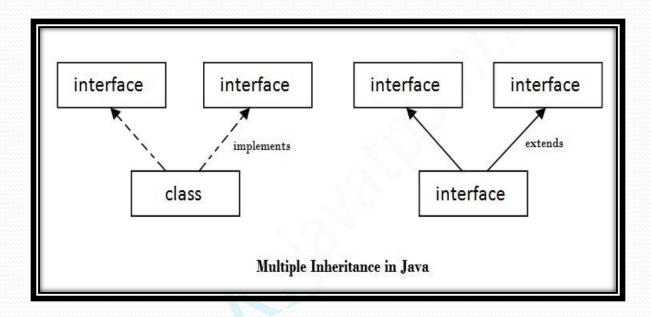
class	interface
We can instantiate a class, i.e. we can create an object reference for a class	We can't instantiate an interface.
A class is declared using a keyword 'class' class <class name=""> { }</class>	An interface is declared by using a keyword 'interface'. interface <interface name="">{ }</interface>
The members of a class can have the access modifiers like public , private , protected .	The members of an interface are always public. Up to (1.7v)
Inside a class you can have method implementation.	In interfaces we can't write method body, because all the methods are by default public abstract methods. Up to (1.7v)
Multiple inheritance is not possible	Multiple inheritance is possible
We can have constructor.	We can't have constructors

- An interface is a blueprint of a class.
- Interface is a mechanism to achieve fully abstraction in java.
- There can be only abstract methods in the interface (up-to 1.7v).
- It is used to achieve fully abstraction and multiple inheritance in Java.
- Interface fields are public, static and final by default, and methods are public and abstract.
- For variables present in the interface we should provide initialization at the time of declaration only.
- Interfaces should have only abstract methods. (we can check the internal implementation by using javap .className).
- We can declare a class inside the interface.
- We can write main method in interface from jdk 1.8v

- If we want to inherit an interface from a class we need to use the keyword 'implements' not 'extends'.
- If we want to inherit an interface from another interface we need to use the keyword 'extends' not 'implements'.



• We can achieve multiple inheritance in java by using interfaces.



- We can extends multiple classes from a class at a time (T/F)
- We can implement any number of interfaces from a interface at a time (T/F)
- We can implement only one interface from a class at a time (T/F)

• When implementing an interface, if a class cant provide the implementation of all the abstracts methods present in that interface then make that class as abstract class.

Marker Interface:

- A marker interface in Java is an interface with no fields or methods. To be precise, an empty interface in Java is called a marker interface.
- Examples of marker interfaces are Serializable, Cloneable etc