

JAVA Chapter 6

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JAVA CHAPTER NO 6 INTERFACES

Q: What is an interface? Explain.

An interface is similar to class. It is a collection of abstract method. Methods of interface do not have bodies.

- ➤ Interface provide a set of declared public methods that do not have method bodies. A class that implements an interface must provide concrete implementation of all methods defined by the interface, or it must be declared abstract.
- ➤ An interface is declared using keyword 'interface', followed by the name of the interface and a set of method declarations.
- ➤ It is not possible to directly instantiate an interface and create a member of the interface type.
- ➤ Instead a class must implement the interface to provide the necessary method bodies.
- ➤ Interface is used to achieve complete abstraction in java.
- ➤ Interface names should be adjectives. They should end with "able" or "ible" whenever the interface provides a capability, otherwise they should be nouns. Interface names follow the same capitalization.

Convention or class names:

public interface Serializable; public interface SystemPanel;

Example:

```
public void eat() {System.out.println("Mammal eats");
public void travel() {
System.out.println("Mammal travels");
}
public Int noOfLegs() {
return 0;
}
Public static void main(String args[]) {
mamalInt m=newMammalInt();
m.eat();
m.travel;
}
}
```

Q: Define implementation of an interface?

When a class implements an interface, you can think of the class as signing a contract, agreeing to perform the specific behaviours of the interface, the class must declare itself as abstract.

A class uses the keyword 'implement' to implement an interface.

Q: What is the difference between Abstract class and Interface?

Abstract Class	Interface
1. Abstract class is a class	Interface is a java object
which contains one or more	containing method declaration
abstract methods, which	but no implementation. The
has to be implemented by	classes which implement the
its sub classes.	interface must provide the
	method definition for all the
	methods.
2. Abstract class is a class	Interface is a pure abstract class
prefix with an abstract	which starts with the keyword
keyword followed by class	"Interface".
definition.	
3. Abstract class can contain	Interface contains all abstract
concrete methods.	methods and final variable
	declarations.
4. Abstract classes are useful	Interfaces are useful in a
in a situation that some	situation that all properties
general methods should be	should be implemented.
implemented and	-
specialization behavior	
should be implemented by	
child classes.	

CHAPTER END

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