Abstract Classes and Interfaces Subject : Abstract Classes & Methods Date > An abstract class is a class that is declared abstract. An abstract which is declared without an implementation >I class includes obstract methods, class may or not include abstract methods > when on abstract dass is subclassed the slubclass should provide Implementations for all abstract methods or the subclass be declared abstract. -> Purpose of an abstract does is to specify the default functionality of an object Interfaces -> An unterface is a collection of methods. It contains only behavious of an object that a class implements. -> The variables that appear must be declared both static and final -> represents IS-A relationship. Boly Inheriterro in Interface > The extends keyword is used to extend interface to another and the child interface inherits the methods of parent enterface. -> More than one interface can be extended. Scanned by CamScanner

- abstract methods and abstract classes find or static. Making them will stop abstract being extended which is the on classes implementing interfaces road not Constructor chainning the constructor -> When creating an instance that extends an abstract class, compiler in Halize both the classes. Hence compiler implicitly could the abstract class constructor. *What is the purpose of constructor if instantiated in an abstract class? -> can be used to initialize common variables declared inside abstract class -> even it not constructor is present, compiler will add default constructor. * When to choose obstract class and > Abt classes are useful in a situation when some general methods should be implemented

subject:	
specialization behavior should be implemented by subclasses	
Interfaces are useful on a situation when all its properties need to be simplemented by cubilasses (ie) when only behavior of a mothod implements its behavior.	
all of properties all I I a situation when	
by subdasses (ie) when	anti be implemented method
Is specified but not cone	exped about who
implements its behavior.	
* Difference between their	not alones and interlaces
- Abstract Class	Interface
>may contain both abstract	All methods are implicitly
in the contract of the contrac	abstract
> cannot contain final variable.	default final.
011 1	nethods declared are
private protected or public !	y default public.
> tightly coupled	loosely coupled.
# Disadvantage of interface. -> when a new feature (method) is added	
-> when a new dear	ure (method) is odded
to an interface contract, then all of the classes which implement that interface must implement	
those mew method.	