

Inheritance:-

Child class will get the information from parent class

//METHOD OVERIDING ==> When a child class gets a method from parent class, if the child class is not happy with that method then child has the power to modify the content of that method.



POLYMORPHISM(One to Many)



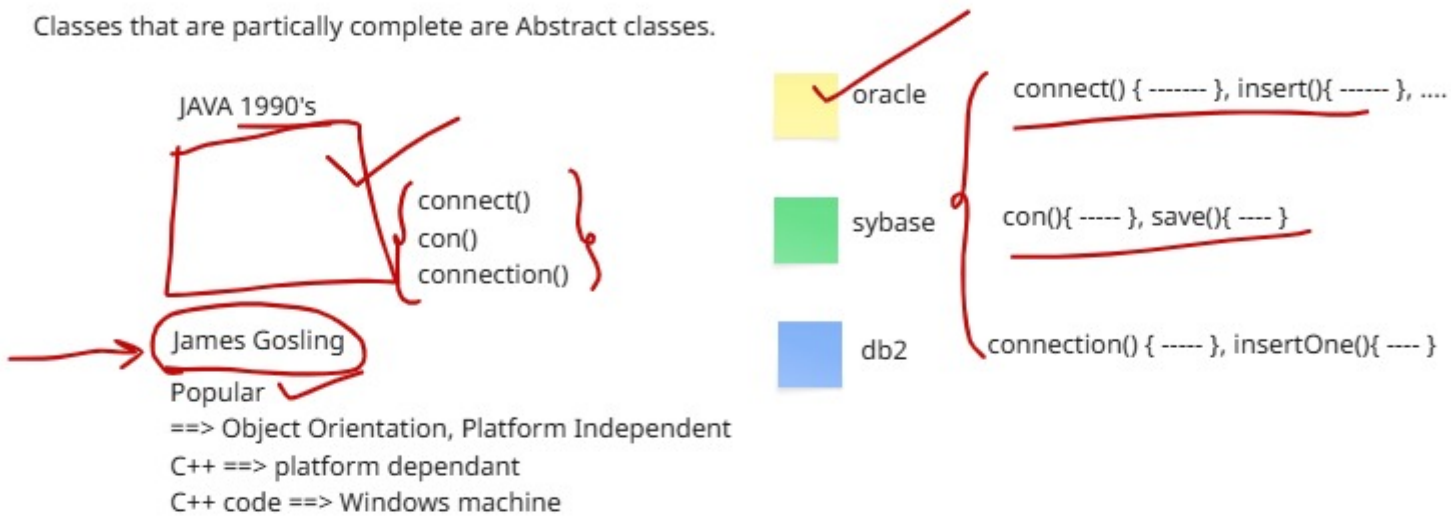
One person doing multiple things

one reference variable able to handle multiple objects

Concrete Method ==> A method having body is concrete method
If a class has only concrete methods, then that class is a complete class
==> Concrete class

Abstract Method ==> The method that doesn't have any body.
whenever we have a abstract method we attach abstract keyword

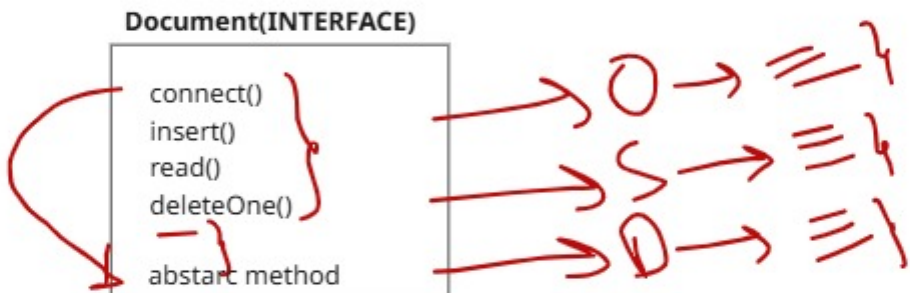
Classes that are partially complete are Abstract classes.



Code ==> Windows ==> Run ==> MacOS
Java Code ==> Windows ==> Run ==> MacOS,

We cannot make Java application to communicate with any database

Developer ==> Java ==> FILE's



Concrete class gives zero shareability.
Interface gives more shareability
Abstract class gives less shareability

- 1) In interface, by default to each method JAVA automatically adds abstract keyword
- 2) Multiple inheritance is possible using a class and a interfaces
- 3) One interface can extend another interface or any no of interfaces

final keyword

we can use final keyword in 3 places in java:-

- 1) on a variable ==> it doesn't allow to change the value
- 2) on a method ==> that method cannot be overridden
- 3) on a class ==> that class cannot be inherited

packages in java

package(folder) ==> store your java files

Gmail project

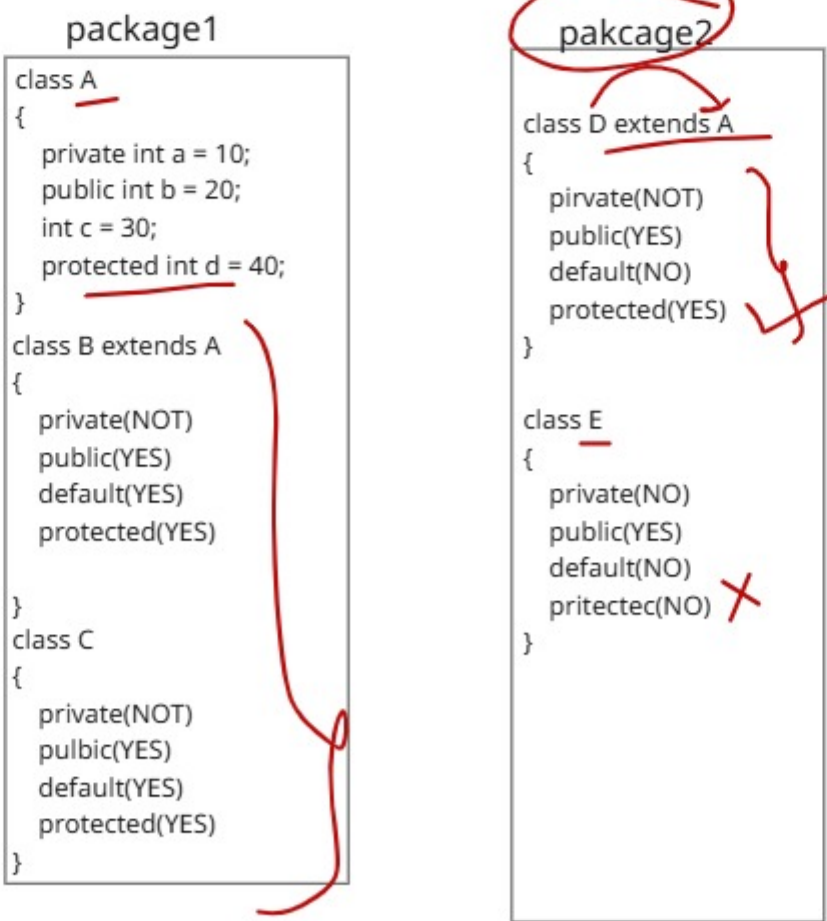
Signin ==> 4 java files

Inbox ==> 6 java files

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format ==> com.cg.gmail

com.cg.gmail
com.cg.gmail.signin ==> 4
com.cg.gmail.inbox ==> 6



private variables are accessible only in the current class where it was created.
public variables are accessible everywhere in the same package OR in some other package.
default variables are accessible to all the classes in the same package where it was created.
protected variables are accessible to all the classes in the current package and only in child classes in the other packages.

