Accu Control.

How a member can be account in determined by the account modifier attended to its declaration. Usually, you can't want to restrict account to the data members of a class-allowing access only thousands members of a class-allowing access only thousands members of a class-allowing access only will be times when you will be times when you will want to define members that are private to a class.

Javai acces modifiers are public, private and protected.
Java also defines a default access revel protected
applies only when inheritance is involved.

when no access modifier is used than by accessed the nomber of a class is public within its own package, but cannot be accessed outside of its package.

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•	Class	Package	Came pkg)	(diff pkg)	(diff plg 2 not subj	land
public	+	+	+	+	t	
professed	+	+	+	+		
no movifer	+	+	+			
private	+					
	And the second s					
						-

+ : accessible.

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package package One; public class Base 3 () page dio betostord package packagetwi, public class Dexived extends package One Base } public void show() { new Base (). diplay (); It his is not working new Derived (), diplay (), Ilis working giplay (). His woodcha protected allow access from subclasses and from other classes in the same package. we can we child class to use protected member outside the package but only child class object can access it. That's why any Doubled class instance can access the protected method in The other line coreates a Base instance (not a Doolived instance) And access to protected mothers of that instance is only allowed from object of the same package. diplay(). -> allowed, because the caller, an instance of Devived has access to protected members and fields of its subclasses, even if they're in different packages.

I allowed, because you call the method on an instance

rew Donived(), display();

of boulded and that instance has access to the protected methods of its subclasses

rew Pase (1, display ();

I now allowed because the calonic (the this instance) class is

not defined in the same package like the Base class, so
this can't access the protected method. And it doesn't way
as we see that the current subclasses a class from
those package. That backdoor is closed.

Remember that any time talk about a subclass having a access to a superclass member, we could be talking about the subclass inhoniting the member not simple accessing the member through a preference to an instance of the superclass.

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Clase 3 extends C

obj.member; (lonly allowed if type of obj is S or

subdon of S.

The motivation is probably as following of obj is an S, class S has sufficient knowledge of it intermals if obj is not an S, it probably another subclass S2 of E, which I has no there so so manipulate of the protected intermals in quite dangenous. If this is allowed from S2's point of view, it doesn't know who will tampon with it protected intermals and now this makes S2 job your hand to reason about this nakes S2 job your hand to reason about

How if obj 11 D, and D extends S, is it dangenous or s to access obj member 9 Not really to access obj member 9 Not really thow S wer member is a shared mousledge of S and all the subclasses, including D. S as the superclass has the suggest to define behaviours, and D as the subclass has the obligation to accept and confirm

for easier understanding, the nule should really be simplified to require objs (static) type to be exactly 5. After all, its very unusual and inappropriate for subclass D to appear in s. And even if it happens, that the static type of obj is D, over simplified only can deal with it early by uprasting: ((5)obj). member

them-defined in-built.

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3) lephones of the control of C

such a class that determines the nature of method that. # Abstract (Liauses the repolars will implement. i.e. when superglan only definer generalised from the child classes will Allow, but subclasses fill in details on their own i.e. make body of their own such day one abstract clayes · Memods used by child class to make changes overent class is cla abstract method. abstract data type namelhure" (string name); Any class that contains I or nove abother methods mus also be declared asstract. We cannot create abstract constructor and static april abstract class (cause it asserts) ≥ We cannot do nullipse inheritance in abstract. > Herface They contain abstract class whome func" whe public and abstract are stortic and final. Alow pulliple inhanitance.