Access Modifiers, Packages and Encapsulation:

Packages:

They are the logical containers which are used to store the classes. This helps us to understand what types of access does these classes have.

If the class is having a access modifier as public then it means that no matter in which package this classes is being placed it can be accessed from everywhere and from any class.

If the class is stored directly in the src folder then it is called as the top level class.

If the class is inside package and we do not provide any access modifier then by default an access modifier is implictly provided to that class and that is private. This means that the class is now only accessed from other classes who are part of the same package.

Access Modifiers:

Access modifiers	Meaning
Public	Class in any package can access this class
protected	Allows classes in the sae package and any subclasses in other packages to have access the member.
	When modifier is not given then it means package access. Here members are accessible only to classes in same package.
private	means there is no other class which can access these memvbers

Encapsulation:

It means bundeling behaviour and attibutes on a single object.

And also it means that some methods and memebers are restricted or hidden from the public access.