**Encapsulation** -

1. Is the process of binding the data and the code which operates on the data together into a single unit.
2. We achieve Encapsulation in Java through a class, A class binds the fields (data members) and the methods (code which operates on the data members) together into a single unit.
3. Encapsulation helps us to hide/protect the data

**JAVA BEAN** - private variables

. . . . . . . . . . . Public constructor with no parameter

Setter and getter

**Simple Association** -

1. . . . . . . . AccountHolder has a SavingsAccount
2. A student and faculty are having an association

**Association example** -

Savingsaccount account = new Savingaccount(\*\*some parameter \*\*\*);

account.accountHolder = new AccountHolder(\*\*some parameters \*\*\*);

**Aggregation (has-a)** -

Is a special case of association when an object is part of another object, they you have Aggregation between them.

Example- wallet and money

Laptop and speakers

Mobile and memory card

**Composition-** is a special case of Aggregation. When an object contain another object, if the contained object cannot exist without the existence of container object.

Example - Mobile and battery

Mobile and sim

Company and employee

Body and heart, lungs, brain