What is encapsulation?

The process of binding data and corresponding methods into a single unit is nothing but encapsulation.

Every class is an example of encapsulation.

Encapsulation = Data hiding + Abstraction

What is has-a-relationship?

It is also known as composition or Aggregation

There is no specific key for has-a-relationship

Advantage is: Reusability

class Car {

Engine e = new Engine()

}

Car has a engine reference

What is the difference between Composition and Aggregation?

**Composition:** Without existing container object if there is no chance of existing contained objects then container and contained objects are strongly associated and this strong association is nothing but composition.

Example: University and departments

**Aggregation:** Without existing container object if there are chance of existing contained objects then container and contained objects are weekly associated and this week association is nothing but Aggregation.

Example: Department and Professor