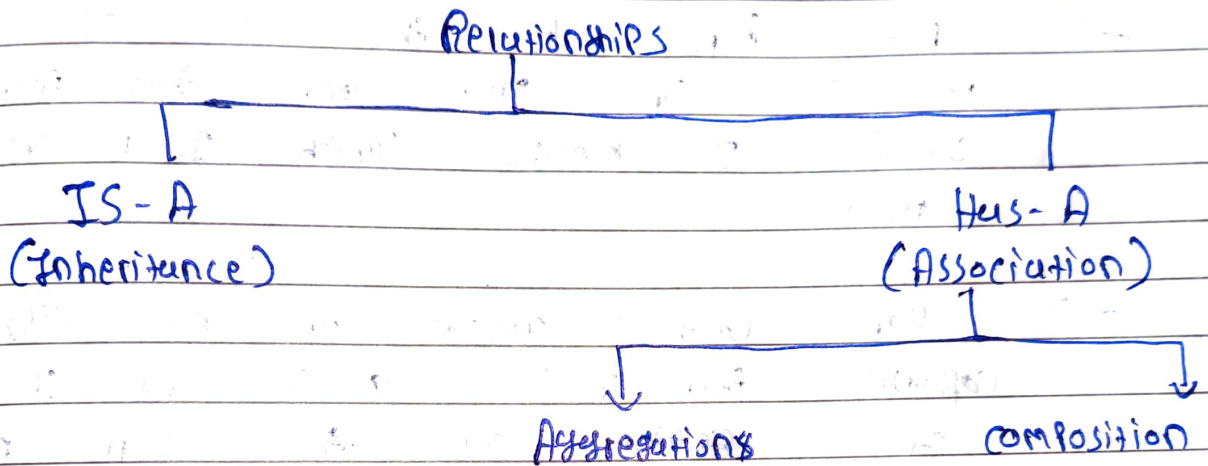


* Relationship Between classes.

(Important for Real-time Projects)

→ There are two types of Relationship Between classes.



* Advantages of Relationship.

1. Code - Re-usability.
2. Cost - Cutting.
3. Reduce - redundancy (Remove un-necessary code)

→ Inheritance we covered in previous notes
Now Association (Has-A Relationship)

* Association

Class Engine &

↳
Class Car Extends Engine &
Engine & = new Engine ();

↳

Car HAS - A Engine

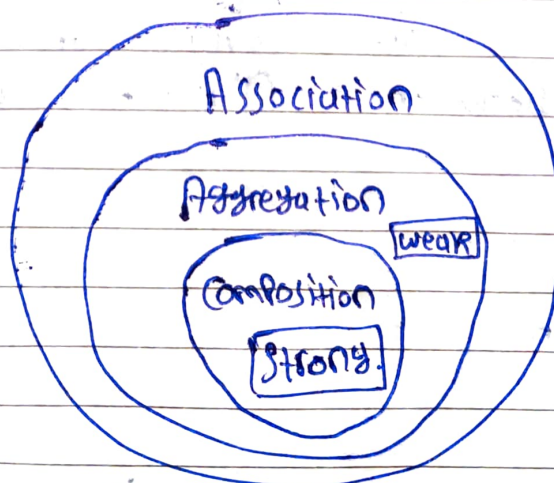
→ Here if I inherit Engine in Car class then All properties of Engine class are extended in Car class.

→ But here by the use of e we I can use only that properties what I need. Which I require in Project.

→ Here Both classes are not tightly coupled. then if I do any changes in Engine class that will not affect on Car class.

→ Here Relation Between Both class is not blood Relation.

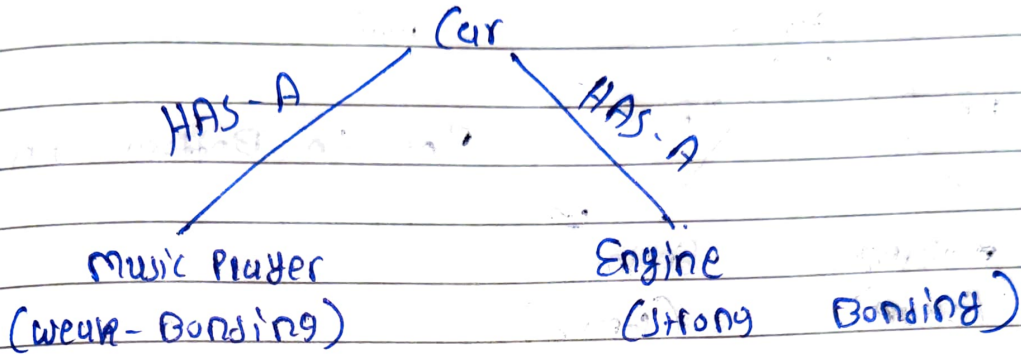
→ Association has two forms.



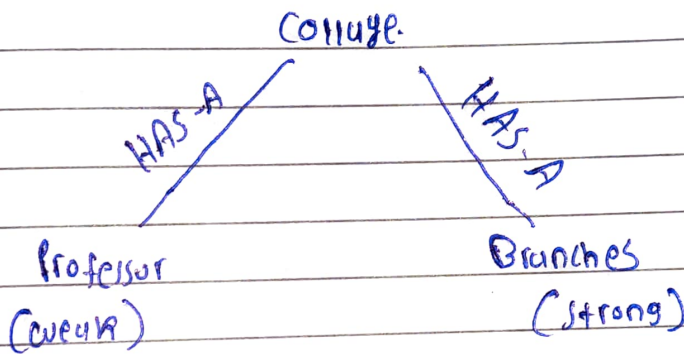
→ It is a bonding between two classes is ~~Agg~~ weak. then it is weak ~~binding~~.
Aggregation Bonding.

→ It A Bonding Between two classes is Strong then it is a composition Bonding.

Ex-1-



Ex-2-



* Summary.

Relationship B/w classes.

Inheritance

- (IS-A)
- Extends keyword.
- blood Relation
- tightly coupled. Coupled.

Association

- (HAS-A)
- ref, Variable, new
- non-blood Relation.
- not tightly coupled.

→ We should use Association in large projects.

