



FACULTY OF ENGINEERING & TECHNOLOGY

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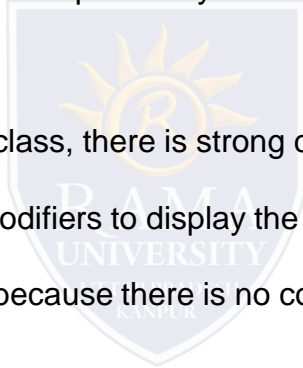
Topics Covered

**Coupling
Cohesion
Association**



Coupling

- Coupling refers to the knowledge or information or dependency of another class.
- It arises when classes are aware of each other.
- If a class has the details information of another class, there is strong coupling.
- In Java, we use private, protected, and public modifiers to display the visibility level of a class, method, and field.
- You can use interfaces for the weaker coupling because there is no concrete implementation.



- Cohesion refers to the level of a component which performs a single well-defined task.
- A single well-defined task is done by a highly cohesive method.
- The weakly cohesive method will split the task into separate parts.
- The java.io package is a highly cohesive package because it has I/O related classes and interface.
- The java.util package is a weakly cohesive package because it has unrelated classes and interfaces.

Association

- Association represents the relationship between the objects.
- Here, one object can be associated with one object or many objects.
- There can be four types of association between the objects:
 - One to One
 - One to Many
 - Many to One, and
 - Many to Many
- Association can be unidirectional or bidirectional.

