

FACULTY OF ENGINEERING & TECHNOLOGY

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Topics Covered

Aggregation Composition

Advantage Of Oops Over Procedure-oriented Programming Language

Aggregation

- Aggregation is a way to achieve Association.
- Aggregation represents the relationship where one object contains other objects as a part of its state.
- It represents the weak relationship between objects.
- It is also termed as a has-a relationship in Java.
- Like, inheritance represents the *is-a* relationship.
- It is another way to reuse objects.

Composition

- · The composition is also a way to achieve Association.
- The composition represents the relationship where one object contains other objects as a part of its state.
- There is a strong relationship between the containing object and the dependent object.
- · It is the state where containing objects do not have an independent existence.
- If you delete the parent object, all the child objects will be deleted automatically.

Advantage Of Oops Over Procedure-oriented Programming Language

- OOPs makes development and maintenance easier, whereas, in a procedure-oriented programming language, it is not easy to manage if code grows as project size increases.
- OOPs provides data hiding, whereas, in a procedure-oriented programming language, global data can be accessed from anywhere.

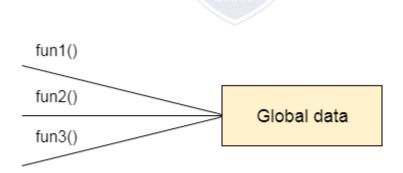


Figure: Data Representation in Procedure-Oriented Programming