

Decorator Design Pattern

- Decorator design pattern is structural design pattern.
 - This pattern acts as wrapper to existing object of class.
 - This pattern allows to add new functionality to existing object of class dynamically.
 - This doesn't change the instance or functionality of other class instances, just new objects get new behaviour.
 - It does not change the base code class and its object.
 - This pattern creates decorator classes which wraps the original class object without changing the original class method signature.
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- Implementation
 - This pattern is based on abstract classes and we derive concrete implementation from those classes.
 - In this pattern we create interface that creates blueprint of class which will have decorator functionality and classes.
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- Components of decorator pattern
 - Component: interface
 - Its an interface that is used to add functionality to classes at run time
 - Concrete component
 - Its an object to which functionality can be added at runtime.
 - Decorator
 - It refers to component interface and is an interface itself that conforms component interface
 - Concrete Decorator
 - It adds responsibility to components