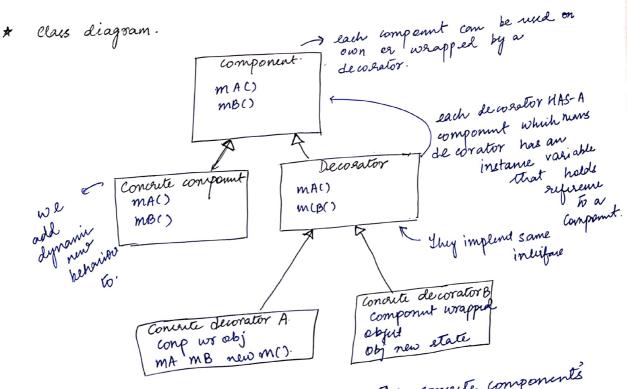
## Chapter 3 . The Decorator pattern

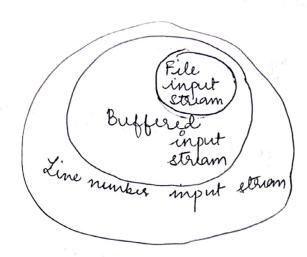
- \* If behaviour is inhibited by subclassing, it is set statically at compile time.

  But if behaviour is entended by composition, then it can be set dynamically at suntime.
- \* By composition, write new code for new feature instead of alluring.
- \* OPEN CLOSE PRINCIPLE

  Classes should be open for enlirs ion but closed for modification.
- \* Decorator (as object wrappers). Cald behaving to object they weap).
- \* The decorator adds its own behaviour either before and/or after deligating to the object it decorates to do the rest of the job.
- \* The Decorator patuan attatches additional responsibilities to an object dynamically. They provide flexible alternative to subclassing for entending functionality.



- \* If we have a code that relies on the concerte components' type, decorators will break that code.
- \* Gration of concrete component with decorator is well-en capsulated.



- \* Downside of decorator pattirn:
- -> large number of small classes that can be confueing if trying to use Decorator-band API.
- -> Båd when code is dependent on specific types.
- \* Write your Jama I/o.
- \* Good about decorator:
- -> Usually ment decorator & clint downt have to know.