

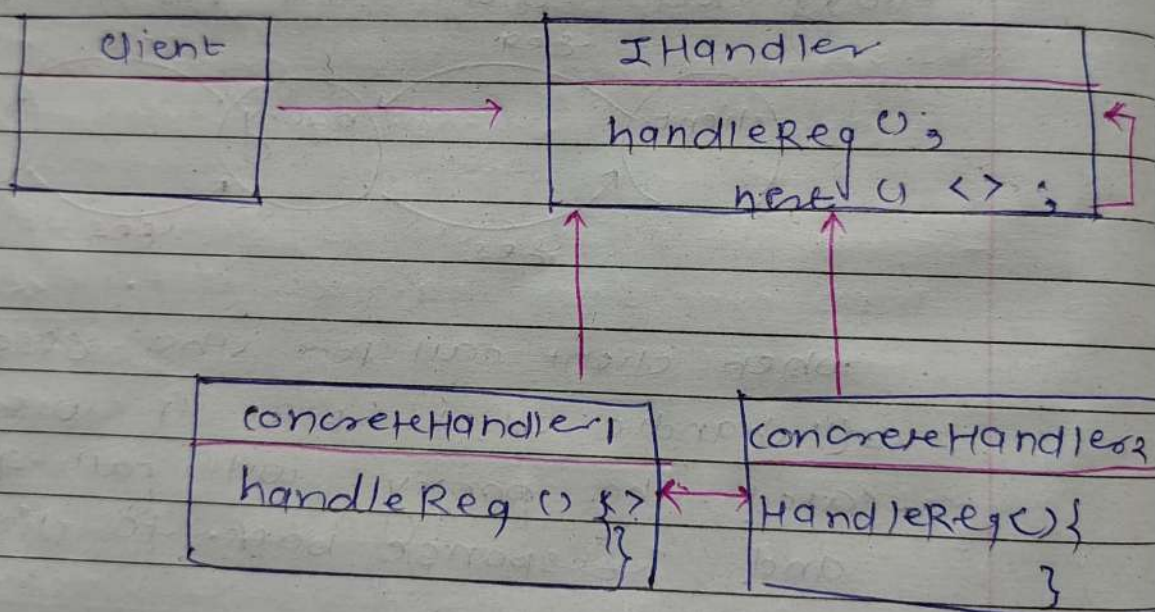
Lecture 22 Chain OR Responsibility

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Standard defⁿ:-

Chain of Responsibility design pattern allows an object to pass a request along a chain of potential handler. Each handler in the chain decides either to process the request or pass it to the next handler.

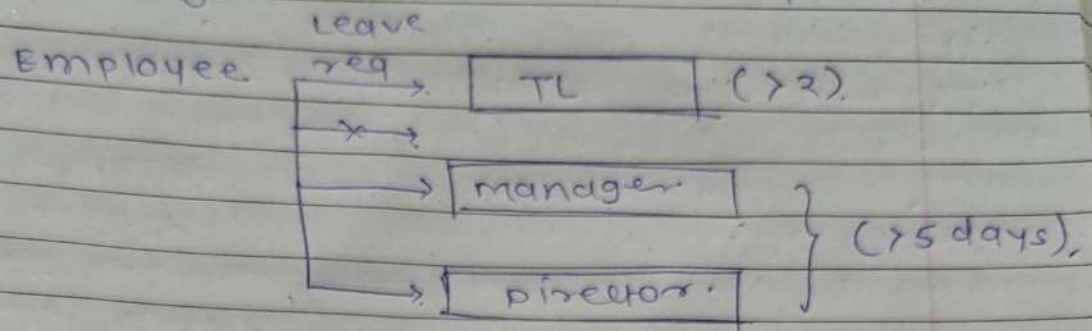


Real world use case

- ① Logger (3 type of Hierarchy exists)
 - info
 - debug()
 - error } they are linked in chain.

H/W

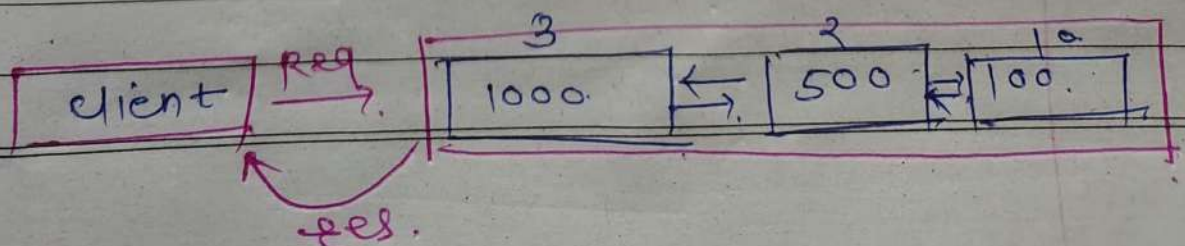
② Design a leave request system.



Ex:- Flow for cash dispensing.

- ATM machine have notes of 1000, 500, 100. each having 3, 2, 10 notes respectively. Each type of note have respective handler. eg:-
thousandNoteHandler, hundredNoteHandler, fiveHundredNoteHandler

client ask request to withdraw 5000 ₹. First it will take request to thousandNoteHandler. If it have 3000 ₹ and it will give to client and req to fiveHundredNoteHandler and it gives 2 notes of 500 same for hundredNoteHandler. It works like a chain, delegate req from one to another and work in chain fashion.



UML diagram

- cash dispensing Handler

