## **Design Pattern Assignment**

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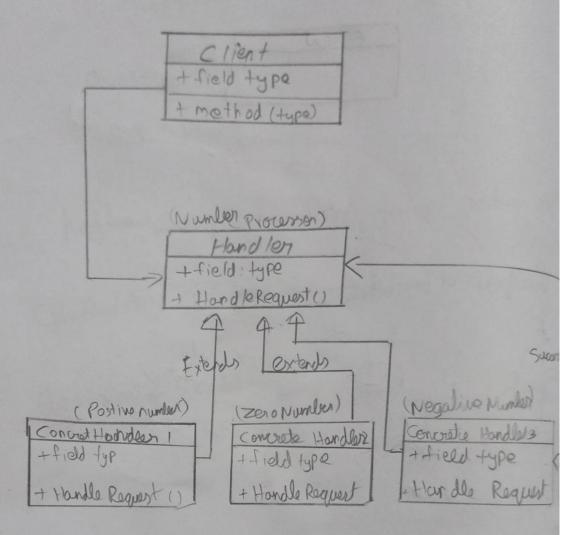
#### 1. Class diagram and description of Chain of responsibilities design Pattern

Chain of Responsibility is a behavioral design pattern that lets you pass requests along a chain of handlers. Upon receiving a request, each handler decides either to process the request or to pass it to the next handler in the chain. Chain of responsibility pattern is used to achieve loose coupling in software design.

#### Used in Scenarios where

- When you want to decouple a request's sender and receiver
- Multiple objects, determined at runtime, are candidates to handle a request
- When you don't want to specify handlers explicitly in your code
- When you want to issue a request to one of several objects without specifying the receiver explicitly.

# Chain of Responsibility



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## 2. Example(Java Classes) for Prototype(Creational)

