Chain of Responsiblity Pattern:

Chain of Responsiblity pattern is used to acheive loose coupling in software Design where a request from the client is passed to a chain of objects to process them. Then the object in the chain will decide who will be processing the request and whether the request is required to be sent to the next object in the chain or not.

Some Important points in chain of Responsbility Pattern.

* Each object in the chain will have its own implementation tot process the request, either full or partial to send it to the next object in the chain.

Class diagram for Chain of Response

```
                    ┌────────────────────────────────┐
                    │     Dispense Chain              │
                    │      <java interfaces>          │
                    ├────────────────────────────────┤
                    │ • setNextChain(DispenseChain: void│
                    │ • dispense(currency): void      │
                    └────────────────────────────────┘
                       ↑          ↑            ↑
              ┌────────┘          │            └────────┐
              │                   │                     │
┌──────────────────┐  ┌──────────────────┐  ┌──────────────────┐
│   ID=RS           │  │  Twenty Rupee    │  │   Fifty Rupee    │
│  Ten Rupee        │  │   <Javaclass>    │  │   < Java class   │
│  <Java class>     │  ├──────────────────┤  ├──────────────────┤
├──────────────────┤  │ • Twenty Rupee() │  │ • Fifty Rupee()  │
│ • Rupee10(        │  │ •set NextChain(Dispee│ │ •setNextChain  │
│ • Ten Rupee()     │  │    Chain): void  │  │  Dispense chain) │
│ •setNextChain(Dispense│ │                 │  │    void          │
│     chain) void   │  │ • dispence(currency)│ │ • dispence(Currenc│
│ • dispence(currency)│ └──────────────────┘  └──────────────────┘
└──────────────────┘
```