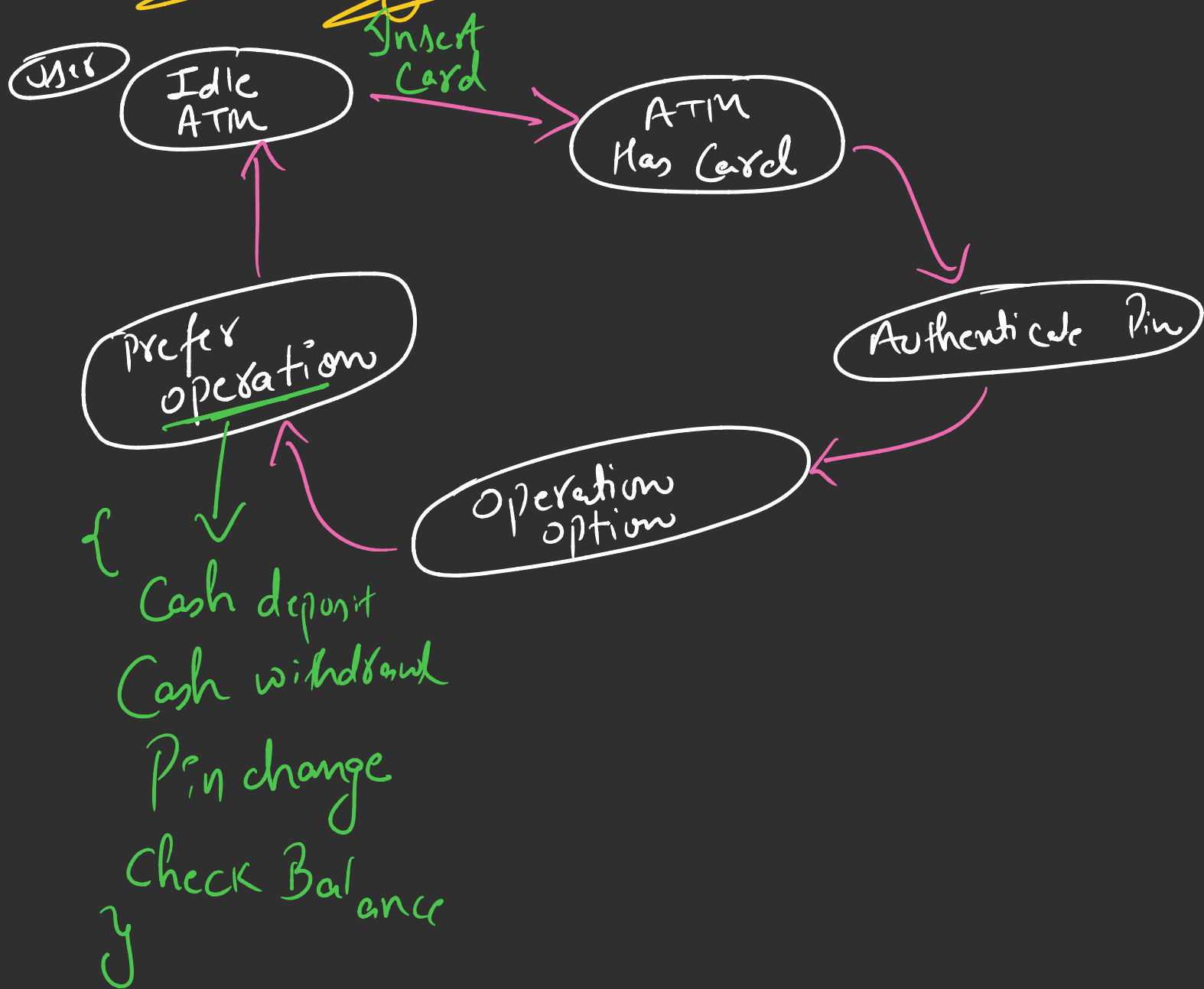


ATM

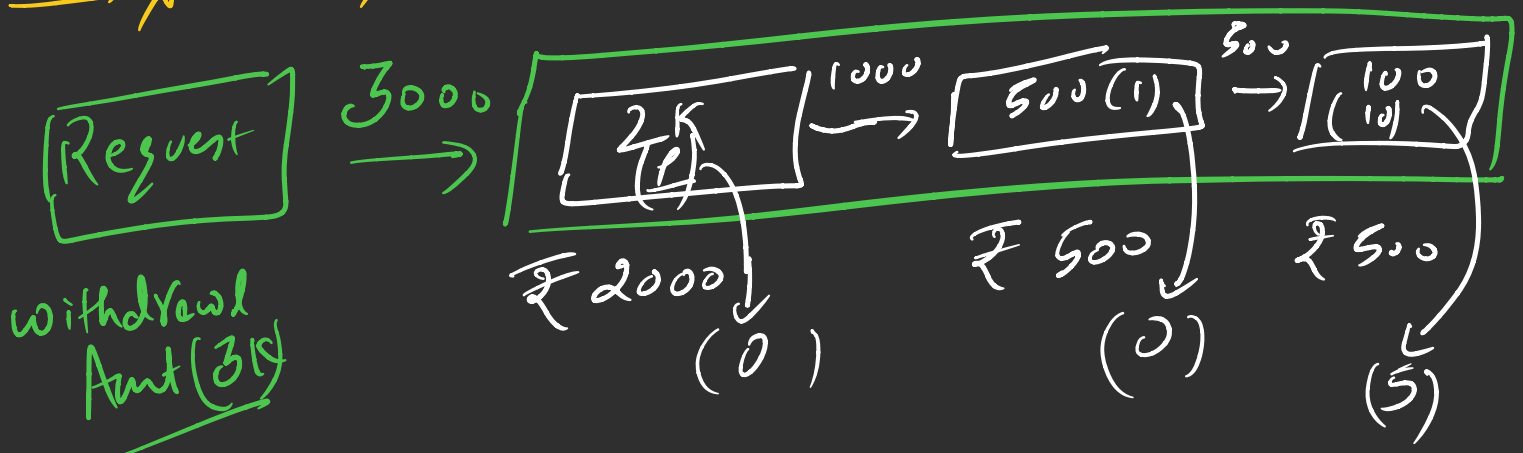
(State Design + Chain of Responsibility)

⇒ Flow Diagram



State	operation
① Idle State	Insert Card()
② Has Card	Authenticate Pin()
③ Selection State	Select operation

if we have multiple states involved in the scope thus \Rightarrow State Design Pattern



if we have to handle the withdrawn operation of an ATM, like this, thus we need the \Rightarrow CHAIN OF Responsibility Design Pattern

⇒ UML Diagram

[State Design Pattern]

<< abstract >>

[ATM State]

insert Card()

[Idle]

Insert Card();

authenticate card();
exit
return Card();

Select option();
exit
return Card();

Cash withdrawal
exit;
return Card();

display balance();
exit;
return Card();

[After Card]

[Selected operation]

[Cash withdrawal]

[Check Balan]

[ATM]
ATM state

ATM obj
User obj

[ATM Room]

[Cash withdrawal processor]

Cash withdrawal process

[Card]

cur
obj
Bank

[User]

Card obj
Bank Acc obj

[Bank Acc]

Balance ()
Update Balance()

2K withdrawal

500 withdrawal

100 withdrawal

[Chain of Responsibility]