Transaction

+DateStamp : DateTime
+Executed : Boolean
+Reversed : Boolean
+Success : Boolean
-_dateStamp : DateTime
-_executed : Boolean
-_reversed : Boolean
#_amount : Decimal
#_success : Boolean

+<<virtual>>Execute()
+<<virtual>>print()
+<<virtual>>Rollback()
+Transaction(amount : Decimal)

<<enumeration>> MenuOption

AddAcc
Withdraw
Deposit
Transfer
Print
PrintTransHist
Quit

BankSyatem

#main(String[] args):void
#ReadUserOption():MenuOption
#DoDesposit(Bank bank):void
#DoWithdrawal(Bank bank):void
#DoTransfer(Bank bank):void
#DoPrint(Bank bank):void
-FindAccount(Bank bank):Account
+<<virtual>> Rollback():void
+<<virtual>> Success():Boolean

Bank

-accounts : List<Account>
- transactions : List<Transaction>

+AddAccount(account:Account)
+Bank()
+ExecuteTransaction(transaction:Transaction)
+GetAccount(name : String): Account
+PrintTransactionHistory()

DepositTransaction

+Success : Boolean
-_dateStamp : DateTime
-_executed : Boolean
-_reversed : Boolean

+<<virtual>>Execute()
+<<virtual>>print()
+<<virtual>>Rollback()
+DepositTransaction(account : Account, amount : Decimal)

WithdrawTransaction

+Success : Boolean
-_dateStamp : DateTime
-_executed : Boolean
-_reversed : Boolean

+<<virtual>>Execute()
+<<virtual>>print()
+<<virtual>>Rollback()
+WithdrawTransaction(account : Account, amount : Decimal)

TransferTransaction

+Success : Boolean
-_deposit : DepositTransaction
-_withdraw : WithdrawTransaction
-_executed : Boolean
-_reversed : Boolean
-_fromAccount : Account
-_toAccount : Account

+<<virtual>>Execute()
+<<virtual>>print()
+<<virtual>>Rollback()
+TransferTransaction(fromAccount : Account, toAccount : Account, amount : Decimal)

Account

+Name : String
-_balance : Decimal
-_name : String

+Account(name : String, balance : Decimal)
+deposit(amount : Decimal) : Boolean
+print()
+withdraw(amount : Decimal) : Boolean