Runtime Polymorphism Basic

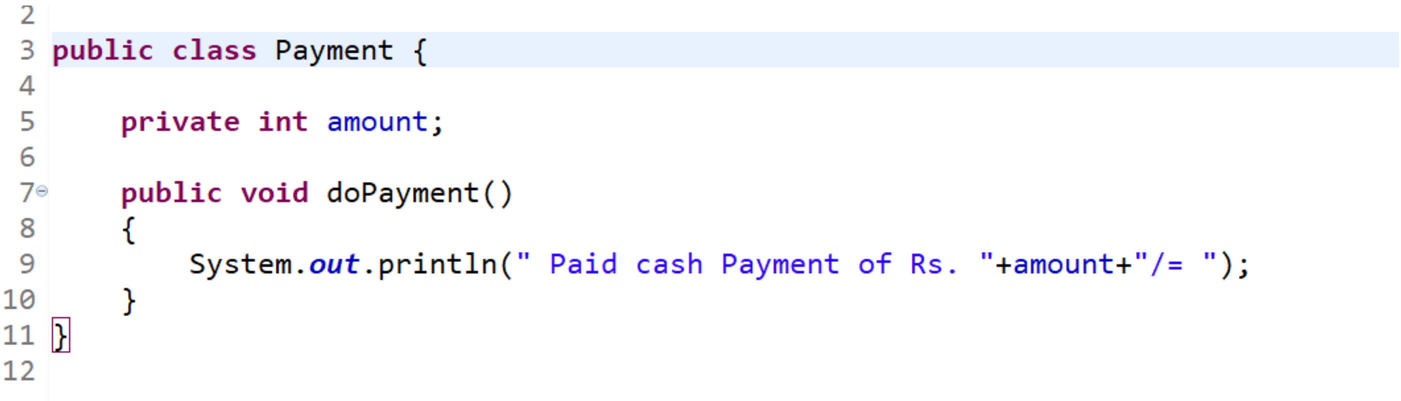
Based on below classes implemented the various payment approaches

Hint: Use method Overriding approach.

You are free to add more details in order to implement logic.

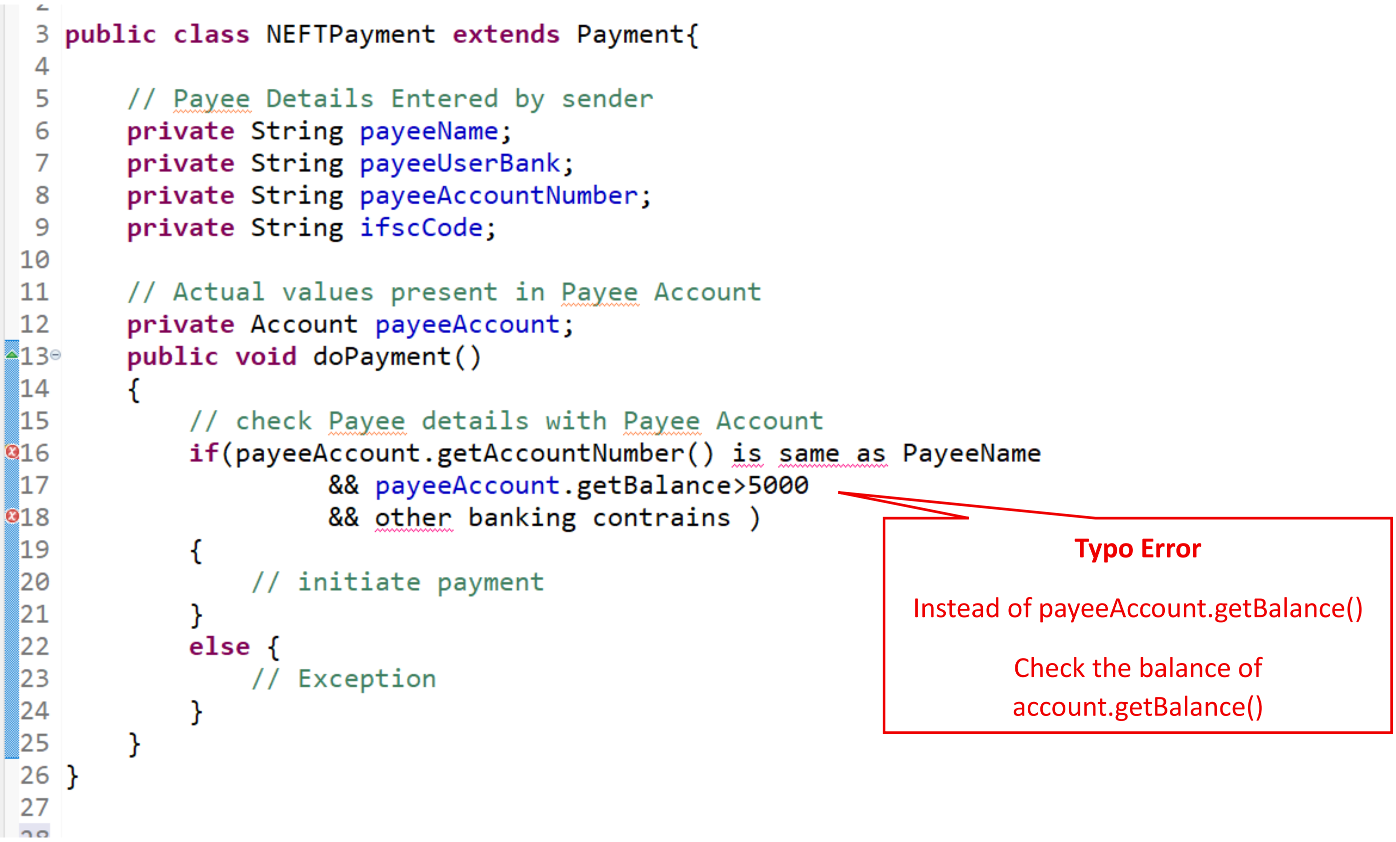
Also Implement “Insufficient Balance Exception ” , “Invalid Account Number Exception ” and “Send Invitation to the Account if Account is not using UPI payment , implement through Custom Exception”

Super Class Payment



```
public class Payment {

    private int amount;

    public void doPayment()
    {
        System.out.println(" Paid cash Payment of Rs. "+amount+"/= ");
    }
}
```

Sub Class – NEFT Payment



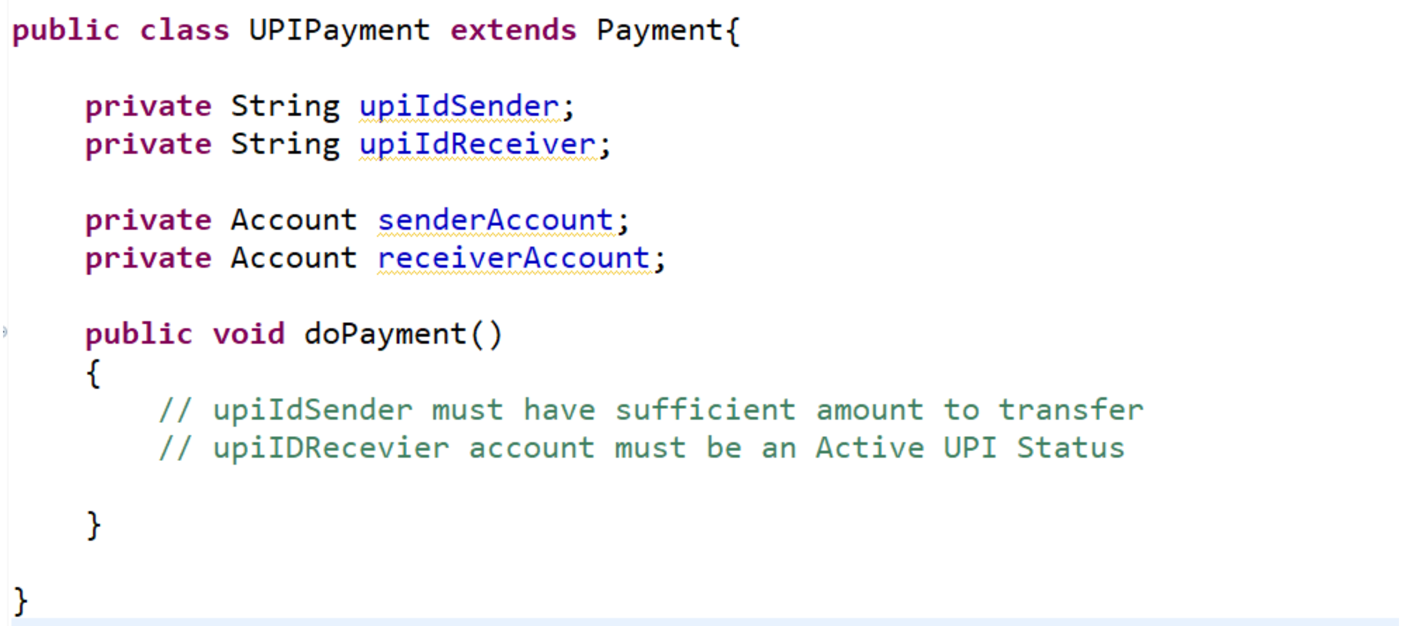
```
public class NEFTPayment extends Payment{

    // Payee Details Entered by sender
    private String payeeName;
    private String payeeUserBank;
    private String payeeAccountNumber;
    private String ifscCode;

    // Actual values present in Payee Account
    private Account payeeAccount;
    public void doPayment()
    {
        // check Payee details with Payee Account
        if(payeeAccount.getAccountNumber() is same as PayeeName
                 && payeeAccount.getBalance>5000
                 && other banking contrains )
        {
            // initiate payment
        }
        else {
            // Exception
        }
    }
}
```

Typo Error

Instead of payeeAccount.getBalance()

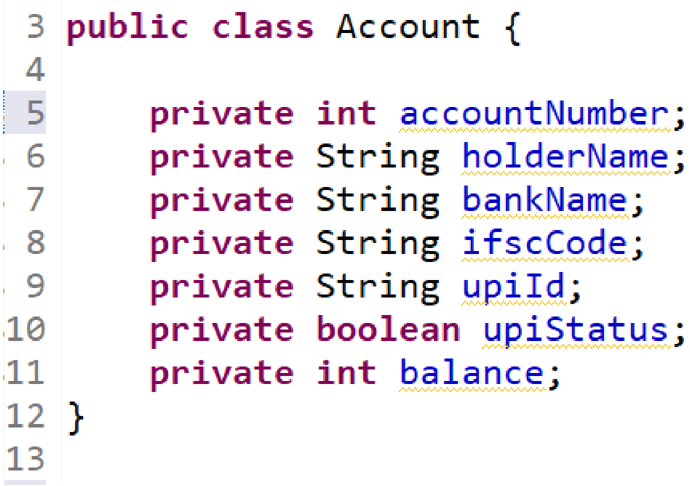
Check the balance of account.getBalance()

Sub Class UPI Payment



```
public class UPIPayment extends Payment{

    private String upiIdSender;
    private String upiIdReceiver;

    private Account senderAccount;
    private Account receiverAccount;

    public void doPayment()
    {
        // upiIdSender must have sufficient amount to transfer
        // upiIDRecevier account must be an Active UPI Status

    }

}
```

NEFT and UPI has Dependency on Account class



```
public class Account {

    private int accountNumber;
    private String holderName;
    private String bankName;
    private String ifscCode;
    private String upiId;
    private boolean upiStatus;
    private int balance;
}

```