

Runtime Polymorphism Basic

Based on below classes implemented the various payment approaches

Hint: Use method Override approach

Super Class Payment

```
2
3 public class Payment {
4
5     private int amount;
6
7     public void doPayment()
8     {
9         System.out.println(" Paid cash Payment of Rs. "+amount+"/= ");
10    }
11 }
12
```

Sub Class – NEFT Payment

```
3 public class NEFTPayment extends Payment{
4
5     // Payee Details Entered by sender
6     private String payeeName;
7     private String payeeUserBank;
8     private String payeeAccountNumber;
9     private String ifscCode;
10
11     // Actual values present in Payee Account
12     private Account payeeAccount;
13     public void doPayment()
14     {
15         // check Payee details with Payee Account
16         if(payeeAccount.getAccountNumber() is same as PayeeName
17             && payeeAccount.getBalance>5000
18             && other banking contrains )
19         {
20             // initiate payment
21         }
22         else {
23             // Exception
24         }
25     }
26 }
27
```

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

```
3 public class Account {
4
5     private int accountNumber;
6     private String holderName;
7     private String bankName;
8     private String ifscCode;
9     private String upiId;
10    private boolean upiStatus;
11    private int balance;
12 }
13
```