```
//Abstract class
abstract class Account {
protected double balance;
// Constructor
public Account(double initialBalance) {
  this.balance = initialBalance;
}
// Abstract methods to be implemented by subclasses
abstract void deposit(double amount);
abstract void withdraw(double amount);
abstract double getBalance();
// Common method (can be inherited)
public void showBalance() {
  System.out.println("Current Balance: " + balance);
}
}
//Subclass 1: SavingsAccount
class SavingsAccount extends Account {
public SavingsAccount(double initialBalance) {
  super(initialBalance);
}
@Override
```

```
void deposit(double amount) {
  balance += amount;
  System.out.println("Deposited " + amount + " to Savings Account.");
}
@Override
void withdraw(double amount) {
  if (amount <= balance) {</pre>
    balance -= amount;
    System.out.println("Withdrawn " + amount + " from Savings Account.");
  } else {
    System.out.println("Insufficient balance in Savings Account.");
  }
}
@Override
double getBalance() {
  return balance;
}
}
//Subclass 2: CheckingAccount
class CheckingAccount extends Account {
public CheckingAccount(double initialBalance) {
  super(initialBalance);
}
@Override
void deposit(double amount) {
  balance += amount;
```

```
System.out.println("Deposited " + amount + " to Checking Account.");
}
@Override
void withdraw(double amount) {
  if (amount <= balance) {</pre>
    balance -= amount;
    System.out.println("Withdrawn " + amount + " from Checking Account.");
  } else {
    System.out.println("Insufficient balance in Checking Account.");
  }
}
@Override
double getBalance() {
  return balance;
}
}
[11-08-2025 18:50] Rithika Jss: package Banking_Transaction_System;
public class Bank {
private static int totalAccounts=0;
public Bank() {
        totalAccounts++;
}
public static int getTotalAccount() {
        return totalAccounts;
}
}
[11-08-2025 18:51] Rithika Jss: package Banking_Transaction_System;
```

```
//Final part implementation
class Transaction {
// final variable: fixed fee for every transaction
private final double transactionFee;
// Constructor to set the fee
public Transaction(double fee) {
  this.transactionFee = fee;
}
// final method: cannot be overridden in subclasses
public final void performTransaction(String type, double amount) {
   System.out.println("Transaction Type: " + type);
  System.out.println("Transaction Amount: ₹" + amount);
  System.out.println("Transaction Fee: ₹" + transactionFee);
  System.out.println("Total Deducted: ₹" + (amount + transactionFee));
  System.out.println("Transaction Completed.\n");
}
// Getter to access the final variable if needed
public double getTransactionFee() {
  return transactionFee;
}
}
[11-08-2025 18:51] Rithika Jss: package Banking_Transaction_System;
public class Main {
        public static void main(String[] args) {
          Bank acc1 = new Bank();
          Bank acc2 = new Bank();
```

```
Bank acc3 = new Bank();
   Bank acc4 = new Bank();
   System.out.println("Total Bank Accounts: " + Bank.getTotalAccount());
   SavingsAccount sa = new SavingsAccount(1000);
    sa.deposit(500);
    sa.withdraw(200);
    sa.showBalance();
    CheckingAccount ca = new CheckingAccount(2000);
    ca.deposit(1000);
    ca.withdraw(2500); // Should give insufficient balance
    ca.showBalance();
    // Testing the Transaction class
    // All transactions will have ₹20 as fixed fee
     Transaction t1 = new Transaction(20);
t1.performTransaction("Withdraw", 500);
     t1.performTransaction("Deposit", 1000);
 }
```

}