Java OOP Project
Objectives: Covers Object composition, inheritance, polymorphism, Abstract class, Interface, enum
and user-defined exception.

Instructions

Write an **OBJECT-ORIENTED** financial program adhering to the simple requirements listed below. This program should require no input to run and should **NOT** have a user interface. To demonstrate the functionality of your application, please write test classes that invoke a deposit, a withdrawal, and a transfer.

The completed code should support the following:

- A credit union has a name.
- A credit union also has several accounts.
- An account has an owner and a balance.
- Account types include: Money Market, Certificate of Deposit (CD).
- There are two types of Money Market accounts: Consumer, Commercial.
- Consumer accounts have a withdrawal limit of $750.
- Transactions are made on accounts.
- Transaction types include: Deposit, Withdraw, Transfer.

Java Project: CreditUnionProject
Package: com.deloitte.trg.service
        Classes: CreditUnion, Account (Abstract class), MoneyMarket, CertificateOfDeposit
        Interface: Transaction
        User-defined Exception: CreditUnionException

        Note: Integrate Log4J into the project. Log important messages and exceptions
        in the log file

Package: com.deloitte.trg.ui
Class: CreditUnionTester

```java
public class CreditUnionTester {

public static void main(String[] args) {
CreditUnion creditUnion = new CreditUnion();

creditUnion.setCreditUnionName("BrightStar");
creditUnion.setAddress("some address");

MoneyMarket mm1 = new MoneyMarket(101,"Smith",250000,"Money Market",AccountTypeEnum.Consumer);
MoneyMarket mm2 = new MoneyMarket(102,"Jones",350000,"Money Market",AccountTypeEnum.Commercial);
MoneyMarket mm3 = new MoneyMarket(103,"Avinash Chandra",650000,"Money
                                        Market",AccountTypeEnum.Commercial);


CertificateOfDeposit cd1 = new CertificateOfDeposit(501,"Timberlake",5000,"Certificate of Deposit");
CertificateOfDeposit cd2 = new CertificateOfDeposit(502,"Laxmi",10000,"Certificate of Deposit");

Account [] bankAccounts=new Account[5];

bankAccounts[0]=mm1; bankAccounts[1]=mm2; bankAccounts[2]=mm3;
bankAccounts[3] =cd1;bankAccounts[4]=cd2;

creditUnion.setAccounts(bankAccounts);

System.out.println(creditUnion);

}

}
```