

Source code:

```
import java.util.ArrayList;
import java.util.List;

class BankAccount {
    private int accountNumber;
    private String accountHolderName;
    private double balance;
    private List<String> transactionHistory;

    public BankAccount(int accountNumber, String accountHolderName, double
initialBalance) {
        this.accountNumber = accountNumber;
        this.accountHolderName = accountHolderName;
        this.balance = initialBalance;
        this.transactionHistory = new ArrayList<>();
        transactionHistory.add("Account created with balance: " + initialBalance);
    }

    public int getAccountNumber() {
        return accountNumber;
    }

    public String getAccountHolderName() {
        return accountHolderName;
    }

    public double getBalance() {
        return balance;
    }

    public void deposit(double amount) {
        if (amount > 0) {
            balance += amount;
            transactionHistory.add("Deposited: " + amount);
        } else {
            transactionHistory.add("Failed deposit attempt: " + amount);
        }
    }

    public void withdraw(double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            transactionHistory.add("Withdrawn: " + amount);
        } else {
            transactionHistory.add("Failed withdrawal attempt: " + amount);
        }
    }
}
```

```

    }
}

public void showTransactionHistory() {
    for (String record : transactionHistory) {
        System.out.println(record);
    }
}
}

public class BankSystem {
    public static void main(String[] args) {
        BankAccount account1 = new BankAccount(1001, "Latha", 5000);
        BankAccount account2 = new BankAccount(1002, "Arun", 3000);

        account1.deposit(2000);
        account1.withdraw(1500);

        account2.deposit(1000);
        account2.withdraw(5000);

        System.out.println("Account 1 Balance: " + account1.getBalance());
        account1.showTransactionHistory();

        System.out.println();

        System.out.println("Account 2 Balance: " + account2.getBalance());
        account2.showTransactionHistory();
    }
}

```

OUTPUT:

```

C:\Users\latha\Idea\workspace>java -cp .\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2018.1\lib\idea_rt.jar=64544" -Dfile.encoding=UTF-8
Account 1 Balance: 5000.0
Account created with balance: 5000.0
Deposited: 2000.0
Withdrawal: 1500.0

Account 2 Balance: 4000.0
Account created with balance: 3000.0
Deposited: 1000.0
Failed withdrawal attempt: 5000.0

Process finished with exit code 0

```