Java Programming
Section 2-4 practice

MyException.java

```java
public class MyException extends Exception {

  public MyException(String message) {

    super(message);

  }

}
```

JavaBank.java

```java
import javax.swing.*;

import java.awt.*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;


public class JavaBank extends JFrame {

  private JTextField accountNumberField;

  private JTextField amountField;

  private JButton createButton;

  private JButton transactionButton;


  public JavaBank() {

    setLayout(new FlowLayout());


    accountNumberField = new JTextField(10);

    amountField = new JTextField(10);

    createButton = new JButton("Create Account");
```

```java
transactionButton = new JButton("Make Transaction");

add(new JLabel("Account Number:"));

add(accountNumberField);

add(new JLabel("Amount:"));

add(amountField);

add(createButton);

add(transactionButton);


createButton.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    try {
      createAccount();
    } catch (MyException newExc) {
      JOptionPane.showMessageDialog(null, newExc.getMessage());
    }
  }
});

transactionButton.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    try {
      makeTransaction();
    } catch (MyException newExc) {
      JOptionPane.showMessageDialog(null, newExc.getMessage());
    }
  }
```

```java
        });

    }


    public static void main(String[] args) {

        JavaBank bank = new JavaBank();

        bank.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        bank.pack();

        bank.setVisible(true);

    }

}
```

CreateAccount.java

```java
public class CreateAccount {

    public void createAccount() throws MyException {

        try {

            // create account logic here

            System.out.println("Account created successfully!");

        } catch (Exception e) {

            throw new MyException("An unhandled error occurred!!");

        }

    }

}
```

MakeTransaction.java

```java
public class MakeTransaction {

    public void makeTransaction() throws MyException {

        try {

            // transaction logic here

            System.out.println("Transaction successful!");

        } catch (Exception e) {

            throw new MyException("An unhandled error occurred!!");
```

```java
    }
  }
}
```

BankOperations.java

```java
public class BankOperations {

  private CreateAccount createAccount;

  private MakeTransaction makeTransaction;


  public BankOperations() {

    createAccount = new CreateAccount();

    makeTransaction = new MakeTransaction();

  }


  public void performCreateAccountOperation() {

    try {

      createAccount.createAccount();

    } catch (MyException newExc) {

      JOptionPane.showMessageDialog(null, newExc.getMessage());

    }

  }


  public void performMakeTransactionOperation() {

    try {

      makeTransaction.makeTransaction();

    } catch (MyException newExc) {

      JOptionPane.showMessageDialog(null, newExc.getMessage());

    }

  }

}
```