2.3-practice(java programming)

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Code:

```
import javax.swing.*;
// Main class for JavaBank application
public class JavaBank {
  // Custom exception class
  public static class MyException extends Exception {
    public MyException(String message) {
      super(message);
    }
  }
  // Class to handle account creation
  public static class CreateAccount {
    public void createAccount(String accountNumber, String amountText) throws MyException {
      try {
        if (accountNumber.isEmpty()) {
          throw new MyException("Account number cannot be empty!");
        }
        double amount = Double.parseDouble(amountText);
        // Logic to create an account using accountNumber and amount
        System.out.println("Account created successfully with account number: " + accountNumber
+ " and amount: " + amount);
      } catch (NumberFormatException e) {
        throw new MyException("Invalid amount entered!");
      } catch (Exception e) {
```

```
throw new MyException("An unhandled error occurred while creating the account!");
      }
    }
  }
  // Class to handle transactions
  public static class MakeTransaction {
    public void makeTransaction(String accountNumber, String amountText) throws MyException {
      try {
        if (accountNumber.isEmpty()) {
          throw new MyException("Account number cannot be empty!");
        }
        double amount = Double.parseDouble(amountText);
        // Logic to perform a transaction using accountNumber and amount
        System.out.println("Transaction successful for account number: " + accountNumber + " with
amount: " + amount);
      } catch (NumberFormatException e) {
        throw new MyException("Invalid amount entered!");
      } catch (Exception e) {
        throw new MyException("An unhandled error occurred while making the transaction!");
      }
    }
  }
  // Class to manage bank operations
  public static class BankOperations {
    private CreateAccount createAccount;
    private MakeTransaction makeTransaction;
    public BankOperations() {
      createAccount = new CreateAccount();
```

```
makeTransaction = new MakeTransaction();
  }
  public void performCreateAccountOperation(String accountNumber, String amountText) {
    try {
      createAccount.createAccount(accountNumber, amountText);
    } catch (MyException newExc) {
      System.out.println("Error: " + newExc.getMessage());
   }
  }
  public void performMakeTransactionOperation(String accountNumber, String amountText) {
    try {
      makeTransaction.makeTransaction(accountNumber, amountText);
    } catch (MyException newExc) {
      System.out.println("Error: " + newExc.getMessage());
   }
  }
}
public static void main(String[] args) {
  BankOperations operations = new BankOperations();
  String accountNumber = "12345"; // Example account number
  String amountText = "100.00"; // Example amount
  operations.performCreateAccountOperation(accountNumber, amountText);
  operations.performMakeTransactionOperation(accountNumber, "50.00");
}
```

Output:

}

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C:\Users\e020ax\Downloads\java>javac JavaBank.java

C:\Users\e020ax\Downloads\java>java JavaBank Account created successfully with account number: 12345 and amount: 100.0 Transaction successful for account number: 12345 with amount: 50.0

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