**2.3-practice(java programming)**

**Name:** P. Akhil Kumar

**Regno:**192373024

**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:**

