1.package java\_Assignments;

import java.util.Scanner;

public class ArithmeticException {

public static void main(String[] args) {

try {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first value");

int a = sc.nextInt();

System.out.println("Enter the first value");

int b = sc.nextInt();

int c = a/b;

System.out.println("Result = " + c);

}

catch (java.lang.ArithmeticException e)

{

System.out.println("Cannot divide the number by zero");

}

try {

int num = Integer.parseInt("Edureka");

System.out.println(num);

}

catch (NumberFormatException e)

{

System.out.println("Number format Exception");

}

try {

int[] arr = new int[5];

arr[8]=10;

}

catch (ArrayIndexOutOfBoundsException e)

{

System.out.println("Array index not found");

}

try {

String str = "hello";

str.charAt(8);

}

catch (StringIndexOutOfBoundsException e)

{

System.out.println("String index not found");

}

}

}

2.package java\_Assignments;

import java.io.\*;

import java.util.Scanner;

public class UserDefined

static void input(int n ,int d) throws UnsupportedOperationException{

if (d == 0)

{

throw new UnsupportedOperationException("Exception");

}

int c = n/d;

System.out.println("Result = " + c);

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the numerator value");

int n = sc.nextInt();

System.out.println("Enter the denominator value");

int d = sc.nextInt();

try {

input(n,d);

}

catch (UnsupportedOperationException e)

{

System.out.println("Cannot divide the number by zero");

}

}

}

class UnsupportedOperationException extends Exception{

UnsupportedOperationException(String exceptionText){

super(exceptionText);

}

3.package java\_Assignments;

import java.util.Scanner;

public class Atm {

double balance= 2000.00;

long id=98765;

double deposit,amount;

public void savingsaccount() {

System.out.println("account Id "+id);

System.out.println("Choose 1 for Withdraw");

System.out.println("Choose 2 for Deposit");

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

{

try {

if(n==1){

System.out.println("enter withdraw amount");

amount=sc.nextDouble();

withdraw();

}

if(n==2) {

System.out.println("enter deposit amount");

amount=sc.nextDouble();

deposit=balance+amount;

System.out.println("Total amount "+deposit);

}

}

catch(InsufficientBalanceException e) {

System.out.println(e);}

catch(IllegalBankTransactionException e) {

System.out.println(e);

}

}

}

public void withdraw() throws InsufficientBalanceException,IllegalBankTransactionException

{

if(amount>balance)

{

throw new InsufficientBalanceException("insufficient balance enter less amount");

}else{balance = balance-amount;

if(amount<0) {

throw new IllegalBankTransactionException("enter valid amount");

}

System.out.println("current balance "+balance);}}

public static void main(String args[])

{

Atm at=new Atm();

at.savingsaccount();

}

}

class IllegalBankTransactionException extends Exception{

public IllegalBankTransactionException(String msg) {

super(msg);

}

}

class InsufficientBalanceException extends Exception {

public InsufficientBalanceException(String msg) {

super(msg);

}

}