**Exception Handling Assignment**

1. **import** java.util.Scanner;

**public** **class** Division

{

**public** **static** **void** main(String[] args)

{

**double** div;

**try** (Scanner sc = **new** Scanner(System.***in***)) {

System.***out***.println("Enter First Number: ");

**double** num1 = sc.nextDouble();

System.***out***.println("Enter Second Number: ");

**double** num2 = sc.nextDouble();

**try**

{

div = num1/num2;

System.***out***.println("The division of two numbers is: "+div);

}

**catch** (ArithmeticException e)

{

System.***out***.println("Please do not enter zero in the second number");

}

}

}

}

1. **import** java.util.Scanner;

**public** **class** Division

{

**public** **static** **void** main(String[] args) **throws** UnsupportedOperationException

{

**double** div;

**try** (Scanner sc = **new** Scanner(System.***in***)) {

System.***out***.println("Enter First Number: ");

**double** num1 = sc.nextDouble();

System.***out***.println("Enter Second Number: ");

**double** num2 = sc.nextDouble();

**try**

{

div = num1/num2;

System.***out***.println("The division of two numbers is: "+div);

}

**catch** (ArithmeticException e)

{

System.***out***.println("Please do not enter zero in the second number");

**throw** **new** UnsupportedOperationException("Unsupported Operation!");

}

}

}

}

1. **import** java.util.Scanner;

**public** **class** Bank

{

**public** **static** **void** main(String[] args) **throws** InsufficientBalanceException, IllegalBankTransactionException

{

**double** newbalance1, balance = 0, newbalance, deposit, withdraw;

System.***out***.println("Currently Your Savings Account Balance is Zero");

Scanner scan = **new** Scanner(System.***in***);

System.***out***.println("Enter Id:");

Long id = scan.nextLong();

System.***out***.println("Enter the amount you want to Deposit in your Savings Account: ");

deposit = scan.nextDouble();

newbalance1 = balance + deposit;

System.***out***.println("You New Balance is: "+newbalance1);

System.***out***.println("Enter the amount you want to Withdraw from your Savings Account: ");

withdraw = scan.nextDouble();

**if** (withdraw < 0 || (deposit < withdraw))

{

**throw** **new** InsufficientBalanceException("Insufficient Balance. Please Add More Amount.");

}

**if** (deposit > withdraw || (deposit == 0)&&(withdraw > deposit))

{

**throw** **new** IllegalBankTransactionException("Illegal Bank Transaction. Please Withdraw Amount More Than Zero. ");

}

newbalance = (newbalance1) - withdraw;

System.***out***.println("You New Balance is: "+newbalance);

**if** (deposit < 0)

{

}

}

}

**class** InsufficientBalanceException **extends** Exception

{

**public** InsufficientBalanceException(String string)

{

}

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

}

**class** IllegalBankTransactionException **extends** Exception

{

**public** IllegalBankTransactionException(String string)

{

}

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

}