**Core Java Assignment 4**

**Question 1:**

**import**.java.io.\*;

**class** ExceptionA1 {

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

**int** a=6;

**int** b=0;

System.out.println(a/b);

}

}

**OUTPUT:**

Exception in thread "main" java.lang.ArithmeticException: / by zero

at ExceptionA1.main(ExceptionA1.java:7)

**import** java.io.\*;

**class** ExceptionA1 {

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

**int** a=6;

**int** b=0;

**try** {

System.***out***.println(a/b);

}

**catch**(ArithmeticException e) {

System.***out***.println("Divided by zero operation cannot be possible");

}

}

}

**OUTPUT:**

Divided by zero operation cannot be possible

**Question 2:**

**public** **class** MultipleCatch {

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

// **TODO** Auto-generated method stub

**try**{

**int** a=6;

**int** b=0;

System.***out***.println(a/b);

}

**catch**(ArithmeticException e)

{

System.***out***.println("Arithmetic Exception occurs");

}

**catch**(UnsupportedOperationException e)

{

System.***out***.println("UnsupportedOperation Exception occurs");

}

**catch**(Exception e)

{

System.***out***.println("Parent Exception occurs");

}

System.***out***.println("Dividend not divisible by 0");

}

}

**OUTPUT:**

Arithmetic Exception occurs

Dividend not divisible by 0

**Question 3:**

**SavingAccount.java**

**package** exception;

**public** **class** SavingAccount {

**long** loginID= 123456;

**double** balance =2000;

**public** **void** showInfo() {

System.***out***.println("LoginId : " + loginID + "\n" + "Balance : " + balance);

}

**public** **void** withDraw(**double** amount) **throws** Exception{

**if**( balance < amount || balance==0) {

**throw** **new** Exception("Insufficient Balance");

}**else** **if** (amount<0) {

**throw** **new** IlligalBankTransactionException("Illigal Bank Transaction Exception");

}**else** {

balance -= amount;

System.***out***.println("Your money:" + amount);

}

}

**public** **void** hDraw(**double** amount) {

// **TODO** Auto-generated method stub

}

}

**WithDraw.java**

**package** exception;

**import** java.util.Scanner;

**public** **class** Withdraw {

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

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

SavingAccount demoAccount = **new** SavingAccount();

demoAccount.showInfo();

System.***out***.println("\n"+"Enter amount to withdraw:");

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

demoAccount.hDraw(amount);

System.***out***.println();

demoAccount.showInfo();

}

}

**IlligalBankTransactionException.java**

**package** exception;

**public** **class** IlligalBankTransactionException **extends** Exception {

**public** IlligalBankTransactionException(String string) {

}

}

InsufficientBalanceException.java

**package** exception;

**import** java.security.PublicKey;

**public** **class** InsufficientBalanceException **extends** Exception {

**public** **void** InSufficientBalanceException(String msg) {

**super**(msg);

}

}