**Assignment-4**

Exception-Handling:

1)

**import** java.util.Scanner;

**public** **class** ArithematicException {

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

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

System.***out***.println("enter X value: ");

**int** x = sc.nextInt();

System.***out***.println("enter Y value: ");

**int** y = sc.nextInt();

**int** z;

**try** {

z = x / y;

System.***out***.println("Z value is:" + z);

} **catch** (ArithmeticException e) {

System.***out***.println("Avoid dividing by integer 0 " + e);

}

**if** (y == 0) {

System.***out***.println("EXCEPTION IS HANDLED");

}

}

}

3A)

**import** java.util.Scanner;

**class** Withdraw

{

**static** **void** fun() **throws** IllegalAccessException

{

**double** balance = 0, depositAmount, withdrawAmount;

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

System.***out***.println("Enter Deposit an amount");

depositAmount =dep.nextInt();

balance += depositAmount;

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

System.***out***.println("Enter Withdraw an amount ");

withdrawAmount=wd.nextInt();

balance -= withdrawAmount;

**if** (balance<0&&withdrawAmount>balance)

{

**throw** **new** IllegalAccessException();

}

**else**

System.***out***.println("SUCCESSFULLY WITHDRAWN : "+withdrawAmount);

System.***out***.println("ACCOUNT BALANCE AFTER THE TRANSACTION : "+balance);

}

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

{

**try** {

*fun*();

}

**catch**(IllegalAccessException e) {

System.***out***.println(" WARNING :INSUFFICIENT BALANCE EXCEPTION ");

}

}

}

3B)

**import** java.util.Scanner;

**class** Withdraw

{

**static** **void** fun() **throws** IllegalAccessException

{

**double** balance = 0, depositAmount, withdrawAmount;

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

System.***out***.println("Enter Deposit an amount");

depositAmount =dep.nextInt();

balance += depositAmount;

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

System.***out***.println("Enter Withdraw an amount ");

withdrawAmount=wd.nextInt();

balance -= withdrawAmount;

**if** (/\* use this if u don't deposit's in negative values -->depositAmount<0||\*/ withdrawAmount<-1)

{

**throw** **new** IllegalAccessException();

}

**else**

System.***out***.println("SUCCESSFULLY WITHDRAWN : "+withdrawAmount);

System.***out***.println("ACCOUNT BALANCE AFTER THE TRANSACTION : "+balance);

}

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

{

**try** {

*fun*();

}

**catch**(IllegalAccessException e) {

System.***out***.println(" WARNING :ILLEGAL BANK TRANSACTION EXCEPTION ");

}

}

}