Lab 9 Exception การจัดการข้อผิดพลาด

```
☑ CheckingAccount.java  ☑ Ex2WithdrawException.java  ☑ ExceptionDemo.java  ☑ Teller1.java 
図
⚠ Account.java 
☐ CheckingAccount.java
                                    Ex2WithdrawException.java
ExceptionDemo.jav
                                                                                       public class Teller1 {
    public class Account {
                                                                                           public static void main(String[] args){
        protected double balance;
                                                                                               Account acc = new CheckingAccount();
  3⊝
         public Account(){
                                                                                               acc.deposit(1000);
  4
                                                                                               acc.showBalance();
                                                                                               try{
  6
                                                                                                  acc.withdraw(5000);
  7⊝
         public Account(double amount){
                                                                                               }catch (Ex2WithdrawException e) {
  8
                                                                                                  System.out.println("you dont have enough money \nexception is "+e);
  9
             this.balance = amount;
 10
                                                                                    11
 11⊝
        public void deposit(double amount){
                                                                                    12
                                                                                   13 }
 12
            this.balance += amount;

☐ CheckingAccount.java 
☐ Ex2WithdrawException.java
☐ ExceptionDemo.java

 13
 14⊝
         public boolean withdraw(double amount) throws Ex2WithdrawException{
                                                                                          1 public class CheckingAccount extends Account{
            if(this.balance >= amount){
                                                                                                private double credit;
 16
                this.balance -= amount;
                                                                                                public CheckingAccount() {
 17
                 return true:
 18
             throw new Ex2WithdrawException();
                                                                                                public CheckingAccount(double crredit) {
 19
                                                                                         69
 20 //
               return false;
                                                                                                    this.credit = crredit:
 21
                                                                                         8
                                                                                                public CheckingAccount(double amount, double credit){
 22⊝
        public double getBalance(){
                                                                                         10
                                                                                                    this.balance = amount;
            return this.balance:
                                                                                                    this.credit = credit;
 24
                                                                                         12
 25⊝
         public void showBalance(){
                                                                                         13
 26
                                                                                                @Override
                                                                                         149
 27
             System.out.println(this.balance);
                                                                                                public boolean withdraw(double amount)throws Ex2WithdrawException {
                                                                                        △15
 28
                                                                                        16
                                                                                                    if(amount < this.balance + this.credit){</pre>
        public static void main(String[] args){
 29⊝
                                                                                                       this.balance -= amount;
 30
            Account account = new Account(10);
                                                                                         18
                                                                                                       if(this.balance < 0){</pre>
             account.deposit(50.2);
                                                                                         19
                                                                                                            this.credit += this.balance;
 32
             account.deposit(20);
                                                                                         20
                                                                                                            this.balance = 0;
             account.showBalance():
 34
                                                                                         22
                                                                                                       return true:
🔃 Ex2WithdrawException.java 🛭 🔑 ExceptionDemo.java
                                                                                                    else {
                                                                                                        throw new Ex2WithdrawException();
  1 public class Ex2WithdrawException extends Exception{
                                                                                                          return false;
   2⊖
            public Ex2WithdrawException() {
                                                                                         28
   3
                  super();
                                                                                         298
                                                                                                public void showCredit() {
                                                                                         30
                                                                                                    System.out.println(credit);
   4
                                                                                         31
            public Ex2WithdrawException(String s) {
  5⊜
                                                                                                public double getCredit() {
                                                                                        33
                                                                                                    return credit;
   6
                   super(s);
                                                                                        34
   7
                                                                                         35
                                                                                        36 }
  8 }
```

```
1 import java.util.Scanner;
            public class ExceptionDemo {
                      lic class ExceptionDemo {
    public static void main(String args[]) {
        String a , b , c;
        double x1, x2, tmp;
        Scanner input = new Scanner(System.in);
        a = input.next();
        b = input.next();
        c = input.next();
        t = input.next();
                                              double a1 = Double.parseDouble(a);
   12
                                             double al = Double.parsebouble(a);
double bl = Double.parsebouble(b);
double cl = Double.parsebouble(c);
tmp = Math.pow(bl, 2) - (4*a1*c1);
x1 = (-b1 + Math.sqrt((Math.pow(b1, 2)) - (4*a1*c1))) / (2*a1);
x2 = (-b1 - Math.sqrt((Math.pow(b1, 2)) - (4*a1*c1))) / (2*a1);
if(Double.isNaN(x1) || Double.isNaN(x2) || (2*a1) == 0 || (Math.sqrt((Math.pow(b1, 2))) == 0)){
    throw new ArithmeticException();
}
   16
   17
   18
19
20
21
22
23
24
25
                                                else {
                                                        System.out.println(x1);
System.out.println(x2);
   26
27
28
29
30
                                  catch(ArithmeticException e) {
   System.out.println("ArithmeticException "+e);
                                   catch (NumberFormatException e) {
   System.out.println("NumberFormatException "+e);
   34
   35
36 }
37
```