Lab program -6 a) A program that demonstrates handling of exceptions in inheritance tree create a base class called "Father" and derived class "son" which extends the base class. In Famer class implement a constitute which takes the age and throw the exception. wrong Age() when the input 15 age < 0. In son class, implement a constructor that cases both Jather and son's age and throwns an exception 4 son age is >= Jathur's age educate masser

import java.util. *;

class Father Age Exception Extends Exception & public string tostring () & return ("Father age less than 0")

inderest < yer our years = 155 fec. 0 class sonAge Exception extends Exceptions race: a mother inta;

son Age Exception Cint age) { "a = age jus 0.000

public string tostning () {. return ("son's age is loss mano");

cise return ("Son's age is more Man Jamer's age")

```
class Famers
                               Out ou
        Public intagel;
         Scanner s = new Scanner Coystem in)
          Jamer () f
                     System out printh(" Enter Father's
                           = s. nextInt();
                void exico mrows Fatheringe Exception {
                          if (age1<0)
                            throw new James Age Exception
                3000 - Well Dioch Si Job Sides
          extends Jather &
Class son
           public intagez;
             son() {
                       system.out.print (" Enter son's age.
                           age 2 = s. next In();
              Void ex2() shrows son Age Exceptions
                   4 (age2<0 11 age2 > super.age1)
                      throw new sonAge Exception (age 2);
  Class Father sonf
                Public Static void main (string angs[])
                    Jather 1 = new Jather ()
Son 5 = new son();
                             SID. ex 10)
                               Yl, exici's
                catch ( Father AgglExceptions)
                        ? system.out.println(e); }
              try { 5. ex2(); 3
              calch ( son Age exception e) {
                             System.out.print(e);
```

output

Enter falher's age: -2

Enter son's age: 5

Father age is less than o

Son's age is more man fathur age

Enter Jamer's age: 40

Enter son's age: 50

son's age is more than jather's age

Enter Jamus age: 40

Enter son's age: 15

output

Enter Jalher's age: -2

Enter son's age: 5

Father age is less than o

Son's age is more man father age

Mass Fallery

Enter Jamer's age: 40

Enton son's age: 50

Son's age is more than Jatheris age

Jarhers age: 40
son's age: 15 Enten

Enter

void exers moons four itsige Exceptional

(Cost 164 5 = 2 260)

C:\javaprograms>java fatherson

Enter father's age: 40

Enter son's age: 15

C:\javaprograms>java fatherson

Enter father's age: -3

Enter son's age: 12

Father's age is less than 0

Son's age is more than father's age

C:\javaprograms>java fatherson

Enter father's age: 30

Enter son's age: 40

Son's age is more than father's age

C:\javaprograms>java fatherson

Enter father's age: 40

Enter son's age: 40