LAB WEEK 7 :EXCEPTION HANDLING:

import java.util.Scanner;

class WrongAge extends Exception {

public WrongAge(String message) {

super(message);

}

}

class Father {

protected int fatherAge;

public Father(int age) throws WrongAge {

fatherAge = age;

if (fatherAge < 0) {

throw new WrongAge("Father's age cannot be negative");

}

}

}

class Son extends Father {

private int sonAge;

public Son(int fatherAge, int sonAge) throws WrongAge {

super(fatherAge);

this.sonAge = sonAge;

if (sonAge <= 0) {

throw new WrongAge("Son's age cannot be negative or zero");

}

if (sonAge >= fatherAge) {

throw new WrongAge("Son's age cannot be greater than or equal to father's age");

}

}

}

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

System.out.print("Enter father's age: ");

int fatherAge = scanner.nextInt();

System.out.print("Enter son's age: ");

int sonAge = scanner.nextInt();

Son son = new Son(fatherAge, sonAge);

System.out.println("Father's age: " + fatherAge);

System.out.println("Son's age: " + sonAge);

} catch (WrongAge e) {

System.out.println("Exception caught: " + e);

System.out.println("Exception caught: " + e.getMessage());

} catch (Exception e) {

System.out.println("Error: " + e);

System.out.println("Error: " + e.getMessage());

} finally {

scanner.close();

}

}

}

Output:



