Java Lab Program 7

import java.util.Scanner;

class WrongAge extends Exception {

public WrongAge(String message) {

super(message);

}

}

class Father {

int age;

public Father(int age) throws WrongAge {

if (age < 0) {

throw new WrongAge("Age Cannot be Negative");

}

this.age = age;

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

}

}

class Son extends Father {

int sonAge;

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

super(fatherAge);

if (sonAge < 0) {

throw new WrongAge("Son's Age Cannot be Negative");

}

if (sonAge >= fatherAge) {

throw new WrongAge("Son's Age Cannot be Greater than or Equal to Father's Age");

}

this.sonAge = sonAge;

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

}

}

public class FatherSon {

public static void main(String[] args) {

System.out.println("Aparna Sankar 1BM23CS047");

Scanner scanner = new Scanner(System.in);

System.out.print("Enter Father's Age: ");

int fatherAge = scanner.nextInt();

System.out.print("Enter Son's Age: ");

int sonAge = scanner.nextInt();

try {

Son son = new Son(fatherAge, sonAge);

} catch (WrongAge e){

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

}

scanner.close();

}

}

