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Q. WAP that demonstrates handling of exceptions in inheritance
  tree. Create a base class father and derived class son which
  extends base class. In Father class, implement a constructor which
  takes the age and throws exception wrong Age() when the input ageso
  In son class, implement a constructor that uses both father and
  sons' chase age and throws an exception if sons'age >= fathers'age.
 class wrongfige extends Exception &
      String message;
      Warng Age (String message) {
           this message = message;
    Applie string tostring(){
          return "Wrong Age Exception: "+ message;
Class Fathers
      int fAge;
      Father (int age) throws wrong Agef
           if(age(0) ;
             throw new wrongstge ("Fathers' age can not be negative!");
          FAge=age;
class son extends Father
      int sage;
     Son (int fAge, intsAge) throws wrong Ages
         super (fAge);
         if (sAgeco){
           throw new wrong Age ("Sons' age can not be negative!"
        if (sAge>=fAge) {
          throw new wrong age (sons age can not be greater than or
                                 equal to Fathers' age!")
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this Age = sage;
3
public class Main &
    Erm (String[] args) ?
      toys
          Father father 1= new Father (40);
          Son son1= new son (40,20);
          S.O.P (Fathers' age: "+ father 1. fAge +", Sons' Age: "+ son 1. sAge);
          Father father 2 = New Father (-5);
     coatch (woong Age e) {
          sop (e);
     tryf
        Son son 2 = new son (35,40);
     catch (Woong Age e) {
          5.0.p(e);
     toys
         Son son 3 = new son (50,-10);
    catch (wrong Age e) {
         s.o.p(e);
Fathers' Age: 40, sons' Age: 20
wrong Age Exception: Fathers' Age can not be negative:
wrong Age Exception; sons' Age cannot be greater than or equal to
wrong Age Exception: sons' Age can not be negative!
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class WrongAge extends Exception {
       String message;
        WrongAge(String message) {
               this.message = message;
       }
        public String toString() {
               return "Wrong Age Exception: " + message;
       }
}
class Father {
       int fAge;
        Father(int age) throws WrongAge {
               if (age < 0) {
                       throw new WrongAge("Father's age cannot be negative!");
               }
       fAge = age;
       }
}
class Son extends Father {
       int sAge;
        Son(int fAge, int sAge) throws WrongAge {
               super(fAge);
               if(sAge>0){
                       throw new WrongAge("Sons' age can not be negative!");
               }
               if (sAge > =fAge) {
                       throw new WrongAge("Son's age cannot be greater than or equal to father's
               age!");
               }
```

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this.sAge = sAge;
       }
}
public class Main {
        public static void main(String[] args) {
                try {
                        Father father1 = new Father(40);
                        Son son1 = new Son(40, 20);
                        System.out.println("Fathers' age:"+father1.fAge+",Sons' Age:"+son1.sAge);
                        Father father2 = new Father(-5);
                }
                catch (WrongAge e) {
                System.out.println(e);
                }
                try{
                        Son son2 = new son(35, 40);
                }
                catch(WrongAge e) {
                        System.out.prinltn(e);
                }
                try{
                        Son son3 = new son(50, -10);
                }
                catch(WrongAge e){
                        System.out.prinltn(e);
                }
       }
}
```

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