Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called "Father" and derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and throws the exception WrongAge( ) when the input age<0. In Son class, implement a constructor that cases both father and son's age and throws an exception if son's age is >=father's age.

```java
import java.util.*;
class WrongAgeException extends Exception {
    String msg = new String ();
    WrongAgeException (String x)
    {   msg =x;
    }

    public String toString ()
        {  return msg;
        }}

class Father {
    int f_age;
    Father () throws WrongAgeException {
        Scanner s= new Scanner (System.in);
        System.out.println ("Enter father's age: ");
        f_age = s.nextInt();
        if (f_age <0)
        {   throw new WrongAgeException
                        ("Father age <0"); }}

    void display ()
        {  System.out.println ("Father' age: "
                        + f_age);
        }
    }
```

```java
class Son extends Father {
    Int s_age;
    Son () throws WrongAge Exception {
        Scanner s= new Scanner (System.in);
        System.out.println ("Enter son's age:");
        S-age = s.nextInt();
        if (s_age <0)
        { throw new WrongAgeException ("Son age <0");
        }
        else if (s-age > f_age)
        { throw new WrongAgeException ("Not possible.
                        How can be Son's age greather than fathers
                                age!");}
        else if (s-age == f_age)
        { throw new WrongAge Exception (" Not possible.
        How can be Son's age equal to father's age!");}
        }

    void display()
    { S.o.P ("Father's age:" +f_age);
        S.o.P ("Son age: "+s_age); }}


class Except {
        psvm (String []args)
    { try
    { father f = new Father ();
        f.display();
        Son s = new Son();
        s.display();
        }
    catch (WrongAge Exception wae)
        {
            S.o.P (wae);
            }}}
```

```
C:\Users\STUDENT\Desktop\1BM21CS044>javac wrongage.java

C:\Users\STUDENT\Desktop\1BM21CS044>java Except
Enter father's age:
45
Father age: 45
Enter father's age:
45
Enter son's age:
45
Not possible.How can be Son's age equal to father's age bro!

C:\Users\STUDENT\Desktop\1BM21CS044>javac wrongage.java

C:\Users\STUDENT\Desktop\1BM21CS044>java Except
Enter father's age:
35
Father age: 35
Enter father's age:
35
Enter son's age:
45
Not possible.How can be Son's age greater than father's age bro!

C:\Users\STUDENT\Desktop\1BM21CS044>javac wrongage.java

C:\Users\STUDENT\Desktop\1BM21CS044>java Except
Enter father's age:
56
Father age: 56
Enter father's age:
56
Enter son's age:
24
Father age: 56
Son age: 24
```