

```
import java.util.*;
class WrongAge extends Exception
{
    int a;
    String s;
    WrongAge(int x)
    {
        a=x;
    }
    public String toString()
    {
        if(a<=0)
            s="Invalid Age!";
        return s;
    }
}
class WrongSonAge extends Exception
{
    int s_a,f_a;
    String str;
    WrongSonAge(int x, int y)
    {
        s_a=x;
        f_a=y;
    }
    public String toString()
    {
        if(s_a>=f_a)
            str= "Son's age cannot be more than or equal to father's age!";
        return str;
    }
}
```

```

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

class Son extends Father
{
    Scanner sc=new Scanner(System.in);
    int son_age;
    Son() throws WrongAge
    {

        System.out.println("Enter son's age:");
        son_age=sc.nextInt();
    }
    void check()throws WrongAge{
        if(son_age<=0)

            throw new WrongAge(son_age);
    }
    void compare() throws WrongSonAge
    {
        if(son_age>=f_age)
            throw new WrongSonAge(son_age,f_age);
        else
        {
            System.out.println("Father's age: "+f_age);
            System.out.println("Son's age: "+son_age);
        }
    }
}

```

```
    }  
    }  
}  
public class oojLabProg6  
{  
    public static void main(String[] args)  
    {  
        Scanner sc=new Scanner(System.in);  
        try  
        {  
            Son obj2=new Son();  
            obj2.check();  
            obj2.compare();  
        }  
        catch(WrongAge e)  
        {  
            System.out.println(e);  
        }  
        catch(WrongSonAge e)  
        {  
            System.out.println(e);  
        }  
        sc.close();  
    }  
}
```

```
C:\Users\neha2\OneDrive\Documents\Java>javac oojLabProg6.java
```

```
C:\Users\neha2\OneDrive\Documents\Java>java oojLabProg6
```

```
Enter father's age:
```

```
45
```

```
Enter son's age:
```

```
0
```

```
Invalid Age!
```

```
C:\Users\neha2\OneDrive\Documents\Java>java oojLabProg6
```

```
Enter father's age:
```

```
45
```

```
Enter son's age:
```

```
49
```

```
Son's age cannot be more than or equal to father's age!
```

```
C:\Users\neha2\OneDrive\Documents\Java>
```