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Language Java

Main.java

```
1 import java.util.*;
2
3 class fatherAgeException extends Exception{
4     public String toString(){
5         return ("Father's age is less than 0");
6     }
7 }
8
9 class sonAgeException extends Exception{
10     int a;
11     sonAgeException(int age){
12         a=age;
13     }
14     public String toString(){
15         if(a<0)
16             return ("Son's age is less than 0");
17         else
18             return ("Son's age is more than or equal to father's age");
19     }
20 }
21
22 class father{
23     public int age1;
24     Scanner s=new Scanner(System.in);
25     father(){
26         System.out.print("Enter father's age: ");
27         age1=s.nextInt();
28     }
29 }
```

input

Enter father's age: 60  
Enter son's age: 58  
No logical error in the entered data

...Program finished with exit code 0  
Press ENTER to exit console.

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Language Java

Main.java

```
27     age1=s.nextInt();
28 }
29 void ex1() throws fatherAgeException{
30     if(age1<0)
31         throw new fatherAgeException();
32 }
33 }
34
35 class son extends father{
36     public int age2;
37     son(){
38         System.out.print("Enter son's age: ");
39         age2=s.nextInt();
40     }
41     void ex2() throws sonAgeException{
42         if(age2<0 || age2>=super.age1)
43             throw new sonAgeException(age2);
44         System.out.println("No logical error in the entered data");
45     }
46 }
47
48 class Main{
49     public static void main(String args[]){
50         son s=new son();
51         try{
52             s.ex1();
```

input

Enter father's age: 60  
Enter son's age: 58  
No logical error in the entered data

...Program finished with exit code 0  
Press ENTER to exit console.

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Language Java

Main.java

```
38     System.out.print( "Enter son's age: ");
39     age2=s.nextInt();
40 }
41 void ex2() throws sonAgeException{
42     if(age2<0 || age2>=super.age1)
43         throw new sonAgeException(age2);
44     System.out.println("No logical error in the entered data");
45 }
46 }
47
48 class Main{
49     public static void main(String args[]){
50         son s=new son();
51         try{
52             s.ex1();
53         }
54         catch(fatherAgeException e){
55             System.out.println(e);
56         }
57         try{
58             s.ex2();
59         }
60         catch(sonAgeException e){
61             System.out.println(e);
62         }
63     }
64 }
```

input

Enter father's age: 60  
Enter son's age: 58  
No logical error in the entered data

...Program finished with exit code 0  
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