

Command Prompt

Microsoft Windows [Version 10.0.18363.1198]
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C:\Users\Aruna Ravi>javac FatherSon.java

C:\Users\Aruna Ravi>java FatherSon

Enter the Father's age:

50

Enter the Son's age:

18

The entered ages are appropriate

C:\Users\Aruna Ravi>java FatherSon

Enter the Father's age:

40

Enter the Son's age:

42

Age of the Son is greater than the Father

The age difference is -2

C:\Users\Aruna Ravi>



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ENG

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javapgl.java AbstractExample.java sgpa.java bookdetails.java area.java Bank.java BookMain.java mainbook.java Shapes.java final_marks.java student.java Internals.java Externals.java main.java Genja

```
1 import java.util.*;
2
3 class AgeException extends Exception
4 {
5     int age_difference;
6     AgeException(int fathers_age,int sons_age)
7     {
8         age_difference = fathers_age - sons_age;
9     }
10    public String toString()
11    {
12        return "The age difference is " + age_difference;
13    }
14 }
15 class WrongAgeException extends Exception
16 {
17     int entered_age;
18     WrongAgeException(int given_age)
19     {
20         entered_age = given_age;
21     }
22    public String toString()
23    {
24        return "The entered age " + entered_age + " is less than 0. Age cannot be negative!";
25    }
26 }
27 class Father
28 {
29     int age_fath;
30     Father(int fathers_age) throws WrongAgeException
31     {
32         age_fath = fathers_age;
33         if(age_fath<0)
34         {
35             throw new WrongAgeException(age_fath);
36         }
37     }
38 }
```

Java source file

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javapg1.java AbstractExample.java sgpa.java bookdetails.java area.java Bank.java BookMain.java mainbook.java Shapes.java final_marks.java student.java Internals.java Externals.java main.java Gen.ja

```
36     }
37 }
38 }
39 class Son extends Father
40 {
41     int age_son;
42     Son(int fathers_age,int sons_age) throws WrongAgeException,AgeException
43     {
44         super(fathers_age);
45         age_son = sons_age;
46         if(age_son<0)
47         {
48             throw new WrongAgeException(age_son);
49         }
50         if(age_son>=age_fath)
51         {
52             throw new AgeException(age_fath,age_son);
53         }
54     }
55 }
56 class FatherSon
57 {
58     public static void main(String[] args)
59     {
60         int fathers_age,sons_age;
61         Scanner getData = new Scanner(System.in);
62         System.out.println("Enter the Father's age: ");
63         fathers_age = getData.nextInt();
64         try{
65             Father fathObj = new Father(fathers_age);
66         }
67         catch(WrongAgeException w)
68         {
69             System.out.println("Age exception raised! " + w);
70         }
71         System.out.println("Enter the Son's age: ");
72         sons_age = getData.nextInt();
73         try{
```

Java source file

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javapg1.java AbstractExample.java sgpa.java bookdetails.java area.java Bank.java BookMain.java mainbook.java Shapes.java final_marks.java student.java Internals.java Externals.java main.java Genja

```
51 {
52     throw new AgeException(age_fath,age_son);
53 }
54 }
55 }
56 class FatherSon
57 {
58     public static void main(String[] args)
59     {
60         int fathers_age,sons_age;
61         Scanner getData = new Scanner(System.in);
62         System.out.println("Enter the Father's age: ");
63         fathers_age = getData.nextInt();
64         try{
65             Father fathObj = new Father(fathers_age);
66         }
67         catch(WrongAgeException w)
68         {
69             System.out.println("Age exception raised! " + w);
70         }
71         System.out.println("Enter the Son's age: ");
72         sons_age = getData.nextInt();
73         try{
74             Son sonObj = new Son(fathers_age,sons_age);
75             System.out.println("The entered ages are appropriate");
76         }
77         catch(WrongAgeException t)
78         {
79             System.out.println("Age exception raised! " + t);
80         }
81         catch(AgeException a)
82         {
83             System.out.println("Age of the Son is greater than the Father" + a);
84         }
85     }
86 }
87
88
```

Java source file

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