

LAB PROGRAM – 8

INPUT :

```
C:\Users\91944\OneDrive\Desktop\OO\LAB\Week_10\exception.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

1  import java.util.Scanner;
2
3  class WrongAge extends Exception
4  {
5      private int f, s;
6      WrongAge(int f1, int s1)
7      {
8          f = f1;
9          s = s1;
10     }
11     public String toString()
12     {
13         if (f < 0)
14             return "INVALID INPUT!! Age CANNOT be negative!!";
15         else if (s >= f)
16             return "INVALID INPUT!! Son's age MUST be lesser than Father's age!!";
17         return "";
18     }
19 }
20
21 class Father
22 {
23     int fage;
24     int sage = 0;
25     Scanner ss = new Scanner(System.in);
26     Father() throws WrongAge
27     {
28         System.out.println("Enter the FATHER'S AGE :");
29         fage = ss.nextInt();
30         if (fage < 0)
31         {
32             throw new WrongAge(fage, sage);
33         }
34     }
35 }
36
```

```
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37 class Son extends Father
38 {
39
40     Scanner ss = new Scanner(System.in);
41     Son() throws WrongAge
42     {
43         System.out.println("Enter the SON'S AGE :");
44         sage = ss.nextInt();
45         if (fage <= sage)
46         {
47             throw new WrongAge(fage, sage);
48         }
49         else
50         {
51             System.out.println("Proper ages have been entered!!");
52             System.out.println("Father's age : "+fage);
53             System.out.println("Son's age : "+sage);
54         }
55     }
56 }
57
58 class FatherSon
59 {
60     public static void main(String[] args)
61     {
62         try
63         {
64             Son s = new Son();
65         }
66         catch(WrongAge e)
67         {
68             System.out.println("ERROR : "+e);
69         }
70     }
71 }
```

OUTPUT:

```
Select Command Prompt
C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_10>javac Exception.java

C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_10>java FatherSon
Enter the FATHER'S AGE :
42
Enter the SON'S AGE :
43
ERROR : INVALID INPUT!! Son's age MUST be lesser than Father's age!!

C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_10>java FatherSon
Enter the FATHER'S AGE :
50
Enter the SON'S AGE :
20
Proper ages have been entered!!
Father's age : 50
Son's age : 20

C:\Users\91944\OneDrive\Desktop\OOJLAB\Week_10>
```