```
ehandling.iava ×
                      MPgenerics.iava × V interfaces.iava •
                                                                       factorialexception.iava
                                                                                            /*Write a Java program to create an account class.
                                                        generics.iava
     /*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 Wrong Age( )
     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.
     This program creates a custom exception type.*/
     import java.util.Scanner;
     class WrongAge extends Exception {
10
     private int a:
11
     WrongAge(int a1) {
12
     a = a1:
13
14
     public String toString() {
15
     return "Input age "+a+" is wrong";
16
17
18
     class Father{
19
         int fa:
20
         Father (int a) throws WrongAge {
21
             fa=a;
22
             if(fa<=0)
23
                  {throw new WrongAge(fa);}
24
25
26
     class Son extends Father{
27
         int sa:
28
         Son (int a,int b) throws WrongAge{
             super(b);
29
30
             sa=a;
31
             if((sa>=fa)||(sa==0))
32
                  {throw new WrongAge(sa);
```

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ehandling.java ×
                                                                                       MPgenerics.java X
                                                                                                                                                        interfaces.java •
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                                                                                                                                                                                                                                                                                                                                                                 /*Write a Java program to create an account class.
                                                                                                                                                                                                                       generics.iava
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE OF THE STATE
                                                                       {throw new WrongAge(fa);}
  23
   24
   25
   26
                      class Son extends Father{
   27
                                       int sa:
                                       Son (int a,int b) throws WrongAge{
   28
   29
                                                       super(b);
   30
                                                       sa=a;
   31
                                                       if((sa>=fa)||(sa==0))
   32
                                                                      {throw new WrongAge(sa);
   33
   34
                                                                      System.out.println("Correct age");
   35
   36
   37
   38
                       class ExceptionDemo {
                       public static void main(String args[]) {
   39
                                       try{Scanner ss=new Scanner(System.in);
   40
   41
                                       int fage, sage;
   42
                                       System.out.println("Enter father's age:");
                                       fage=ss.nextInt();
   43
   44
                                      System.out.println("Enter son's age:");
                                       sage=ss.nextInt();
   45
   46
   47
                                       Son s=new Son(sage, fage);
                       } catch (WrongAge e) {
   48
   49
                      System.out.println("Caught Exception: " + e);
   50
   51
   52
   53
```

```
C:\Program Files\Java\bin\basic>javac ehandling.java
C:\Program Files\Java\bin\basic>java ExceptionDemo
Enter father's age:
Enter son's age:
Correct age
C:\Program Files\Java\bin\basic>java ExceptionDemo
Enter father's age:
Enter son's age:
Caught Exception: Input age 67 is wrong
C:\Program Files\Java\bin\basic>java ExceptionDemo
Enter father's age:
Enter son's age:
56
Caught Exception: Input age 0 is wrong
```