

Lab 8:

```
1 import java.util.*;
2 class Wrongage extends Exception{
3     private String detail;
4     Wrongage(String s)
5     {
6         detail=s;
7     }
8     public String toString(){
9         return ("invalid age exception"+detail);
10    }
11 }
12 class Father{
13     int age;
14     Father(int a){
15         age=a;
16     }
17 }
18 class Son extends Father{
19     int age1;
20     Son(int a,int b)
21     {
22         super(a);
23         age1=b;
24     }
25 }
26 public class abc{
27     public static void main(String[] args){
28         Scanner sc=new Scanner(System.in);
29         System.out.println("enter the age of father and son respectively");
```

```
29         System.out.println("enter the age of father and son respectively");
30         int m=sc.nextInt();
31         int n=sc.nextInt();
32         try{
33             if(m<0)
34                 throw new Wrongage("negative");
35             else if(n>=m)
36                 throw new Wrongage("illogical");
37             else
38             {
39                 Son ob=new Son(m,n);
40                 System.out.println("father's age:"+ob.age+"son's age"+ob.age1);
41             }
42         }
43         catch (Wrongage e){
44             System.out.println(e);
45         }
46     }
47 }
```

▶ Execute

Result

compiled and executed in 54.49 sec(s)

```
enter the age of father and son respectively
10
25
invalid age exceptionillogical
```