

LAB 7

import java.util.*;
write a prog. that demonstrates inheritance
handling of exceptions in inheritance
drill. 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 wrongAge
when input age < 0. In Son class,
implement a constructor that cases
both Father & Son's age
throws an exception if Son's age
is \geq Father's age.

import java.util.*;

Class WrongAge extends Exception
public WrongAge (String s)

super(s);

} Class Father {

private int age;

public Father (int age) throws
WrongAge {

if age < 0 (or) throw new WrongAge
 y cannot be negative");

Q3. P1. Ans. 2. $age = age$; $y = 30$ (Note)

3

(class) Son extends Father {
 private int sonage;

public Son(int fatherAge, int
 sonage) throws
 wrongAge

2

super(father age);

32 & P1. Ans if ($sonAge >= fatherAge$)

throws new WrongAge

"Son's age

cannot be greater than
 or equal to father's

wrong age";

Ans 21 century of Java

this. sonage = sonAge;

public class FatherMain

public static void main (String [] args) {

```

try {
    Son son = new Son (-19, 85);
    catch (WrongAge e) {
        System.out.println ("Age - " + e.getMessage ());
    }
}

```

when
O/P:
Age

30/12/2024

O/P: (-19 and 85) are
when input values are -19 & 85

O/P:

Age cannot be negative

when input values are 35 & 55

O/P:

Son's age cannot be greater
than or equal to Father's age

When input values are 35 & 38

O/P:

Son's age cannot be greater
than or equal to Father's age

Quick Work

Page No.:

Date:

M T W T F S S

when input values are 55 & 35

O/P:

~~Age~~ is valid

ES
30/4/2024