

30/1/2024



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LAB - 7

WAP to implement exception handling using father, son inheritance tree.

```
import java.util.*;
class WrongAge extends Exception
{
    WrongAge (String s)
    {
        super(s);
    }
}
```

```
class input {
    int f-age;
    int s-age;
    Scanner sc = new Scanner (System.in);
}
```

```
class father extends input
{
    father() throws WrongAge
    {
        System.out.println("Enter father's age:");
        f-age = sc.nextInt();
        if (f-age < 0)
            throw new WrongAge("Age cannot be negative");
    }
    void display1()
    {
        System.out.println("Father's age is "+f-age);
    }
}
```

```

class son extends father
{
    son() throws WrongAge
    {
        System.out.println("Enter son's age :");
        s-age = sc.nextInt();
        if(s-age >= f-age)
        {
            throw new WrongAge("Son's age
            cannot be greater than father's age");
        }
        else if(s-age < 0)
        {
            throw new WrongAge("Age cannot
            be negative");
        }
    }

    void display2()
    {
        System.out.println("Son's age is: " + s-age);
    }
}
  
```

```

class Main
{
    public static void main(String args[])
    {
        try
        {
            son s = new son();
            s.display1();
            s.display2();
        }
    }
}
  
```



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```
        catch (WrongAge e)
        {
            System.out.println("Error : " + e);
        }
    }
}
```

OUTPUT -

Enter father's age :

-10

Error: WrongAge : Age cannot be negative

OUTPUT -

Enter father's age :

45

Enter son's age :

50

Error: WrongAge : Son's age cannot be greater than father's age

OUTPUT -

Enter father's age :

40

Enter son's age :

-20

Error: WrongAge : Age cannot be negative

[Signature]
30.01.24