

WEEK 7

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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 display()
```

```
{  
        System.out.println ("father's age is 't'  
        f-age")
```

```
}
```

```
}
```

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

```
import java.util.*;
```

```
class Wrongage extends Exception
```

```
{  
    Wrongage (String s)
```

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{  
        super(s);
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```
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 display()
```

```
{  
    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");
}

else if (s-age < 0)

throw new Wrongage("Age cannot
be negative");
}

void display()
{

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

class Main
{

public static void main (String args[])
{

try
{

Son s = new son();

s.display();

s.display();
}

```
catch (Wrongage e)
```

```
{
```

```
    System.out.println("Error: " + e);
```

```
}
```

```
}
```

```
}
```

OUTPUT

Enter father's age:

-10

Error - Wrongage : Age cannot be negative.

30/01/24