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LAB - 7

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```
import java.util. Scanner;
```

```
class wrongage extends Exception
```

```
{  
    public wrongage (String s)
```

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

```
}
```

```
}
```

```
class input
```

```
{
```

```
    Scanner a = new Scanner (System.in);
```

```
}
```

```
class father extends input
```

```
{
```

```
    int fatherage;
```

```
    void fathercheck() throws wrongage
```

```
{
```

```
        System.out.println("enter the age of father");  
        fatherage = a.nextInt();
```

```
        if (fatherage < 0)
```

```
{
```

```
            throw new wrongage ("Age cannot be  
negative");
```

```
}
```

```
}
```

```
void display()
```

```
{
```

```
    System.out.println ("Father's age is " +  
        fatherage);
```

```
}
```

```
}
```

class son extends father

```
{
    int sonage;
    void soncheck() throws wrongage
    {
        System.out.println("enter son's age");
        sonage = a.nextInt();
        if (sonage >= fatherage)
        {
            throw new wrongage("son's age
                                cannot be greater than
                                father's age");
        }
        else if (sonage < 0)
        {
            throw new wrongage("age cannot
                                be negative");
        }
    }

    void display()
    {
        System.out.println("son's age is " + sonage);
    }
}
```


class main

{

public static void main (string args[])

{

father f = new father();

son s = new son();

try

{

f.father check();

f.display();

s.soncheck();

s.display();

catch (wrong age e)

{

System.out.println("caught" + e)

}

}

}

output

Enter the age of Father
50

Father's age is 50

Enter the age of son
20

son's age is 20

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