

Week 10 Lab 8

```
import java.util.*;  
class WrongAge extends Exception  
{  
    private int a1, b1;  
    WrongAge (int a, int b)  
    {  
        a1 = a;  
        b1 = b;  
    }  
    public String toString ()  
    {  
        if (a1 < 0 || b1 < 0)  
            return "input age cannot be less than 0";  
        else if (a1 <= b1)  
            return "father age cannot be less than or equal to  
                son age";  
    }  
}  
class father  
{  
    int fage, sage;  
    Scanner sc = new Scanner (System.in);  
    Father () throws WrongAge  
    {  
        System.out.println ("Enter the age of father");  
        fage = sc.nextInt();  
        System.out.println ("Enter the age of son");  
        sage = sc.nextInt();  
        if (fage < 0 || sage < 0)  
            throw new WrongAge (fage, sage);  
    }  
}
```

```
class Son extends Father
```

```
{
```

```
    Son() throws WrongAge
```

```
{
```

```
    if (sage >= fage)
```

```
        throw new WrongAge (fage, sage);
```

```
    else
```

```
        System.out.println ("proper ages have been entered");
```

```
}
```

```
}
```

```
class Main2
```

```
{
```

```
    public static void main (String args[])
```

```
{
```

```
    try
```

```
{
```

```
        Son s = new Son();
```

```
    } catch (WrongAge e) {
```

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

```
    }
```

```
}
```

```
}
```